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1.306 zlib 1.2.13.1

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1.307 ip-regex 5.0.0

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1.308 procps 3.3.17-6ubuntu2.1

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1.309 avahi 0.8-5ubuntu5.2

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1.310 python 3.10.12

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1.317 tar 1.34+dfsg-1ubuntu0.1.22.04.2

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1.318 cryptsetup 2.4.3-1ubuntu1.2

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1.319 libio-socket-ssl-perl 2.074-2

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1.320 minipass-collect 2.0.1

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1.321 sqlite 3.37.2-2ubuntu0.3

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1.322 spdx-expression-parse 4.0.0

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1.323 libhttp-cookies-perl 6.10-1

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1.325 libauthen-sasl-perl 2.1600-1.1

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1.334.1 Available under license
1.335 liburi-perl 5.10-1
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1.336 libtry-tiny-perl 0.31-1
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1.337 dumb-init 1.2.5-2
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1.338 systemd-hwe 249.11.5
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1.342 npm-packlist 8.0.2
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1.343 iptables 1.8.7-1ubuntu5.2
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1.357 libxprotocolperl 0.56-7.1
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1.360 libxml-twig-perl 3.52-1
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1.375 node-gyp 10.1.0
1.375.1 Available under license
1.376 @npmcli/map-workspaces 3.0.6
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1.559 npmcli-installed-package-contents 2.1.0

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1.561 npmcli-promise-spawn 7.0.2

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1.6 properties 1.8.1

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1.8 ucf 3.0043

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1.9 fs-minipass 2.1.0

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1.10 libmailtools-perl 2.21-1

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=encoding utf8

=head1 NAME

MailTools - bundle of ancient email modules

=head1 SYNOPSIS

This is a place-holder for the distribution

=head1 DESCRIPTION

MailTools is a bundle: an ancient form of combining packages into one

distribution. Gladly, it can be distributed as if it is a normal distribution as well.

B<Be warned:> The code you find here is very old. It works for simple emails, but when you start with new code then please use more sophisticated libraries. The main reason that you still find this code on CPAN, is because many books use it as example.

=head2 Component

In this distribution, you find

=over 4

=item Mail::Address

Parse email address from a header line.

=item Mail::Cap

Interpret mailcap files: mappings of file-types to applications as used by many command-line email programs.

=item Mail::Field

Simplifies access to (some) email header fields. Used by L<Mail::Header|Mail::Header>.

=item

Mail::Filter

Process L<Mail::Internet|Mail::Internet> messages.

=item Mail::Header

Collection of L<Mail::Field|Mail::Field> objects, representing the header of a L<Mail::Internet|Mail::Internet> object.

=item Mail::Internet

Represents a single email message, with header and body.

=item Mail::Mailer

Send L<Mail::Internet|Mail::Internet> emails via direct smtp or local MTA's.

=item Mail::Send

Build a L<Mail::Internet|Mail::Internet> object, and then send it out using

L<Mail::Mailer|Mail::Mailer>.

=item Mail::Util

"Smart functions" you should not depend on.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.

Mail::Mailer and Mail::Send by Tim Bunce

E<lt>Tim.Bunce@ig.co.ukE<gt>.

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=head1 NAME

Mail::Field::AddrList - object representation of e-mail address lists

=head1 INHERITANCE

Mail::Field::AddrList

is a Mail::Field

=head1 SYNOPSIS

```
use Mail::Field::AddrList;

$to = Mail::Field->new('To');
$from = Mail::Field->new('From', 'poe@daimi.aau.dk (Peter Orbaek)');

$from->create('foo@bar.com' => 'Mr. Foo', poe => 'Peter');
$from->parse('foo@bar.com (Mr Foo), Peter Orbaek <poe>');

# make a RFC822 header string
print $from->stringify(),"\n";

# extract e-mail addresses and names
@addresses = $from->addresses(); # strings
@names     = $from->names();     # strings
@addr      = $from->addr_list(); # Mail::Address objects (v2.00)

# adjoin a new address to the list
$from->set_address('foo@bar.com', 'Mr. Foo');
```

=head1 DESCRIPTION

Defines parsing and formatting of address field, for the following fields: C<To>, C<From>, C<Cc>, C<Reply-To>, and C<Sender>.

All

the normally used features of the address field specification of RFC2822 are implemented, but some complex (and therefore hardly ever used) constructs will not be understood. Use Mail::Message::Field::Full in MailBox if you need full RFC compliance.

Extends L<"DESCRIPTION" in Mail::Field|Mail::Field/"DESCRIPTION">.

=head1 METHODS

Extends L<"METHODS" in Mail::Field|Mail::Field/"METHODS">.

=head2 Constructors

Extends L<"Constructors" in Mail::Field|Mail::Field/"Constructors">.

=over 4

=item Mail::Field::AddrList-E<gt>B<combine>(\$fields)

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::AddrList-E<gt>B<extract>(\$tag, \$head [, \$index])

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::AddrList-E<gt>B<new>(\$tag [, STRING | %options])

Inherited, see L<Mail::Field/"Constructors">

=back

=head2 "Fake" constructors

Extends L<""Fake" constructors" in Mail::Field|Mail::Field/""Fake" constructors">.

=over 4

=item \$obj-E<gt>B<create>(%options)

Inherited,
see L<Mail::Field/""Fake" constructors">

=item \$obj-E<gt>B<parse>()

Inherited, see L<Mail::Field/""Fake" constructors">

=back

=head2 Accessors

Extends L<"Accessors" in Mail::Field|Mail::Field/"Accessors">.

=over 4

=item \$obj-E<gt>B<set>(%options)

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<stringify>()

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<tag>()

=item Mail::Field::AddrList-E<gt>B<tag>()

Inherited, see L<Mail::Field/"Accessors">

=back

=head2 Smart accessors

Extends L<"Smart accessors" in Mail::Field|Mail::Field/"Smart accessors">.

=over 4

=item \$obj-E<gt>B<addr_list>()

Returns the collected L<Mail::Address|Mail::Address> objects.

=item \$obj-E<gt>B<addresses>()

Returns a list if email addresses, found in the field content.

=item \$obj-E<gt>B<names>()

Returns a list of nicely formatted named, for each of the addresses found in the content.

=item \$obj-E<gt>B<set_address>(\$email, \$name)

Add/replace an \$email
address to the field.

=item \$obj-E<gt>B<text>([STRING])

Inherited, see L<Mail::Field/"Smart accessors">

=back

=head1 DETAILS

Extends L<"DETAILS" in Mail::Field|Mail::Field/"DETAILS">.

=head1 DIAGNOSTICS

=over 4

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality. Apparently, the method called is not implemented for the specific class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<[lt>aas@oslonett.noE<gt>](mailto:aas@oslonett.no)>.

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=encoding utf8

=head1 NAME

Mail::Field::Generic - implementation for inspecific fields

=head1 INHERITANCE

Mail::Field::Generic

is a Mail::Field

=head1 SYNOPSIS

```
use Mail::Field;
my $field = Mail::Field->new('Subject', 'some subject text');
my $field = Mail::Field->new(subject => 'some subject text');
```

=head1 DESCRIPTION

A generic implementation for header fields without own

implementation. This is fine for fields like C<Subject>, C<X-Mailer>, etc., where the field holds only a string of no particular importance/format.

Extends L<"DESCRIPTION" in Mail::Field|Mail::Field/"DESCRIPTION">.

=head1 METHODS

Extends L<"METHODS" in Mail::Field|Mail::Field/"METHODS">.

=head2 Constructors

Extends L<"Constructors" in Mail::Field|Mail::Field/"Constructors">.

=over 4

=item Mail::Field::Generic-E<gt>B<combine>(\$fields)

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::Generic-E<gt>B<extract>(\$tag,
\$head [, \$index])

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::Generic-E<gt>B<new>(\$tag [, STRING | %options])

Inherited, see L<Mail::Field/"Constructors">

=back

=head2 "Fake" constructors

Extends L<""Fake" constructors" in Mail::Field|Mail::Field/"Fake" constructors">.

=over 4

=item \$obj-E<gt>B<create>(%options)

-Option--Default
Text "

=over 2

=item Text => STRING

=back

=item \$obj-E<gt>B<parse>([STRING])

Set the new text, which is empty when no STRING is provided.

=back

=head2 Accessors

Extends L<"Accessors" in Mail::Field|Mail::Field/"Accessors">.

=over 4

=item \$obj-E<gt>B<set>(%options)

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<stringify>()

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<tag>()

=item Mail::Field::Generic-E<gt>B<tag>()

Inherited, see L<Mail::Field/"Accessors">

=back

=head2 Smart accessors

Extends L<"Smart accessors" in Mail::Field|Mail::Field/"Smart accessors">.

=over

4

=item \$obj-E<gt>B<text>([STRING])

Inherited, see L<Mail::Field/"Smart accessors">

=back

=head1 DETAILS

Extends L<"DETAILS" in Mail::Field|Mail::Field/"DETAILS">.

=head1 DIAGNOSTICS

=over 4

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality.
Apparently, the method called is not implemented for the specific
class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
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MailTools

- * My extended documentation: <<http://perl.overmeer.net/CPAN/>>
- * Development via GitHub: <<https://github.com/markov2/perl5-MailTools>>
- * Download from CPAN: <<ftp://ftp.cpan.org/pub/CPAN/authors/id/M/MA/MARKOV/>>
- * Indexed from CPAN: <<http://search.cpan.org/~markov/MailTools/>>
and <<https://metacpan.org/release/MailTools>>

MailTools is one of the oldest modules on CPAN. It started off in 1995,
the year Perl 5.0 got released! That's just in the beginning of the

MIME standards.

Email has become more complex over the years. The components of MailTools only understand very basic emails and fairly simple mime headers. Fixing some things will break existing applications.

The only reason for still maintaining it, is because it is used as example in many books and therefore applications still use it. Not because it is good. Sometimes it is good enough, though.

Later, this module got extended by the MIME::Entity modules to support multipart and more smartness. But even those modules are quite limited, considering modern emails.

****Please note:**** When you start all over, please consider Mail::Box!
For a feature overview, take a look at the
[MailBox overview](http://perl.overmeer.net/mailbox/html/Mail_Box-Overview/) and
[MailBox features](http://perl.overmeer.net/mailbox/html/Mail_Box-Index/) pages.

Development & Release

Important to know, is that I use an extension on POD to write the manuals. The "raw" unprocessed version is visible on GitHub. It will run without problems, but does not contain manual-pages.

Releases to CPAN are different: "raw" documentation gets removed from the code and translated into real POD and clean HTML. This reformatting is implemented with the OODoc distribution (A name I chose before OpenOffice existed, sorry for the confusion)

Clone from github for the "raw" version. For instance, when you want to contribute a new feature.

On github,
you can find the processed version for each release. But the better source is CPAN; to get it installed simply run:

```
```sh
cpan -i MailTools
```
```

Contributing

When you want to contribute to this module, you do not need to provide a perfect patch... actually: it is nearly impossible to create a patch

which I will merge without modification. Usually, I need to adapt the style of code and documentation to my own strict rules.

When you submit an extension, please contribute a set with

1. code
2. code documentation
3. regression tests in t/

****Please note:****

When you contribute in any way, you agree to transfer the copyrights to Mark Overmeer (you will get the honors in the code and/or ChangeLog). You also automatically agree that your contribution is released under the same license as this project: licensed as perl itself.

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=encoding utf8

=head1 NAME

Mail::Address - parse mail addresses

=head1 SYNOPSIS

```
use Mail::Address;
my @addrs = Mail::Address->parse($line);
```

```
foreach $addr (@addrs) {
    print $addr->format,"\n";
}
```

=head1 DESCRIPTION

C<Mail::Address> extracts and manipulates email addresses from a message header. It cannot be used to extract addresses from some random text. You can use this module to create RFC822 compliant fields.

Although C<Mail::Address> is a very popular subject for books, and is used in many applications, it does a very poor job on the more complex message fields. It does only handle simple address formats (which covers about 95% of what can be found). Problems are with

=over 4

=item *

no support for address groups, even not with the semi-colon as separator between addresses;

=item *

limited support for escapes in phrases and comments. There are cases where it can get wrong; and

=item *

you

have to take care of most escaping when you create an address yourself: C<Mail::Address> does not do that for you.

=back

Often requests are made to the maintainers of this code improve this situation, but this is not a good idea, where it will break zillions of existing applications. If you wish for a fully RFC2822 compliant implementation you may take a look at L<Mail::Message::Field::Full>, part of MailBox.

B<. Example>

```
my $s = Mail::Message::Field::Full->new($from_header);
# ref $s isa Mail::Message::Field::Addresses;
```

```
my @g = $s->groups;      # all groups, at least one
# ref $g[0] isa Mail::Message::Field::AddrGroup;
my $ga = $g[0]->addresses; # group addresses
```

```
my @a = $s->addresses;    # all addresses
# ref $a[0] isa Mail::Message::Field::Address;
```

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Address-E<gt>B<new>(\$phrase, \$address, [\$comment])

Create a new C<Mail::Address> object which represents an address with the elements given. In a message these 3 elements would be seen like:

PHRASE <ADDRESS> (COMMENT)
ADDRESS (COMMENT)

example:

```
Mail::Address->new("Perl5 Porters", "perl5-porters@africa.nicoh.com");
```

=item \$obj-E<gt>B<parse>(\$line)

Parse the given line and return a list of extracted C<Mail::Address> objects. The line would normally be one taken from a To,Cc or Bcc line in a message

example:

```
my @addr = Mail::Address->parse($line);
```

=back

=head2 Accessors

=over 4

=item \$obj-E<gt>B<address>()

Return the address part of the object.

=item \$obj-E<gt>B<comment>()

Return the comment part of the object

=item \$obj-E<gt>B<format>(@addresses)

Return a string representing the address in a suitable form to be placed on a C<To>, C<Cc>, or C<Bcc> line of a message. This method is called on the first address to be used; other specified addresses will be appended, separated by commas.

=item \$obj-E<gt>B<phrase>()

Return the phrase part of the object.

=back

=head2 Smart accessors

=over 4

=item \$obj-E<gt>B<host>()

Return

the address excluding the user id and '@'

=item \$obj-E<gt>B<name>()

Using the information contained within the object attempt to identify what the person or groups name is.

B<Note:> This function tries to be smart with the "phrase" of the email address, which is probably a very bad idea. Consider to use L<phrase()|Mail::Address/"Accessors"> itself.

=item \$obj-E<gt>B<user>()

Return the address excluding the '@' and the mail domain

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.

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=encoding utf8

=head1 NAME

Mail::Field - base-class for manipulation of mail header fields

=head1 INHERITANCE

Mail::Field is extended by

Mail::Field::AddrList

Mail::Field::Date

Mail::Field::Generic

=head1 SYNOPSIS

use Mail::Field;

```
my $field = Mail::Field->new('Subject', 'some subject text');
my $field = Mail::Field->new(Subject => 'some subject text');
print $field->tag, ":", $field->stringify, "\n";
```

```
my $field = Mail::Field->subject('some subject text');
```

=head1 DESCRIPTION

C<Mail::Field> creates and manipulates fields in MIME headers, collected within a L<Mail::Header|Mail::Header> object. Different field types have their own sub-class (extension), defining additional useful accessors to the field content.

People are invited to merge their implementation to special fields into MailTools, to maintain a consistent set of packages and documentation.

=head1 METHODS

=head2 Constructors

Mail::Field

(and its sub-classes) define several methods which return new objects. These can all be categorized as constructor.

=over 4

=item Mail::Field-E<gt>B<combine>(\$fields)

Take a LIST of C<Mail::Field> objects (which should all be of the same sub-class) and create a new object in that same class.

=item Mail::Field-E<gt>B<extract>(\$tag, \$head [, \$index])

Takes as arguments the tag name, a C<Mail::Head> object and optionally an index.

If the index argument is given then C<extract> will retrieve the given tag from the C<Mail::Head> object and create a new C<Mail::Field> based object. I<undef> will be returned if the field does not exist.

If the index argument is not given the result depends on the context in which C<extract> is called. If called in a scalar context the result will be as if C<extract> was called with an index value of zero. If called in an array context then all tags will be retrieved and a list of C<Mail::Field> objects will be returned.

=item Mail::Field-E<gt>B<new>(\$tag [, STRING | %options])

Create an object in the class which defines the field specified by the \$tag argument.

=back

=head2 "Fake" constructors

=over 4

=item \$obj-E<gt>B<create>(%options)

This constructor is used internally with preprocessed field information. When called on an existing object, its original content will get replaced.

=item \$obj-E<gt>B<parse>()

Parse a field line.

=back

=head2 Accessors

=over 4

=item \$obj-E<gt>B<set>(%options)

Change the settings (the content, but then smart) of this field.

=item \$obj-E<gt>B<stringify>()

Returns the field as a string.

=item \$obj-E<gt>B<tag>()

=item Mail::Field-E<gt>B<tag>()

Return the tag (in the correct case) for this item. Well, actually any casing is OK, because the field tags are treated case-insensitive; however people have some preferences.

=back

=head2 Smart accessors

=over 4

=item \$obj-E<gt>B<text>([STRING])

Without arguments, the field is returned as L<stringify()|Mail::Field/"Accessors"> does. Otherwise, the STRING is parsed with L<parse()|Mail::Field/"Fake" constructors"> to replace the object's content.

It is more clear to call either L<stringify()|Mail::Field/"Accessors"> or L<parse()|Mail::Field/"Fake" constructors"> directly, because this method does not add additional processing.

=back

=head1 DETAILS

=head2 SUB-CLASS PACKAGE NAMES

All sub-classes should be called Mail::Field::I<name> where I<name> is derived from the tag using these rules.

=over 4

=item *

Consider a tag as being made up of elements separated by '-'

=item *

Convert all characters to lowercase except the first in each element, which should be uppercase.

=item *

I<name> is then created from these elements by using the first N characters from each element.

=item *

N is calculated by using the formula :-

$$\text{int}((7 + \text{\#elements}) / \text{\#elements})$$

=item *

I<name> is then limited to a maximum of 8 characters, keeping the first 8 characters.

=back

For an example of this take a look at
the definition of the
C<_header_pkg_name()> subroutine in C<Mail::Field>

=head1 DIAGNOSTICS

=over 4

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality.
Apparently, the method called is not implemented for the specific
class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

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=encoding utf8

=head1 NAME

Mail::Internet - manipulate email messages

=head1 SYNOPSIS

```
use Mail::Internet;
my $msg = Mail::Internet->new(*STDIN);
```

=head1 DESCRIPTION

This package implements reading, creating, manipulating, and writing email messages. Sometimes, the implementation tries to be too smart, but in the general case it works as expected.

If you start writing a B<new application>, you should use the L<Mail::Box> distribution, which has more features and handles messages much better according to the RFCs. See L<http://perl.overmeer.net/mailbox/>.

You may also chose L<MIME::Entity>, to get at least some multipart support in your application.

=head1 METHODS

=head2 Constructors

=over 4

=item \$obj-E<gt>B<dup>()

Duplicate the message as a whole. Both header and body will be deep-copied: a new L<Mail::Internet|Mail::Internet> object is returned.

=item \$obj-E<gt>B<extract>(\@lines)

Extract header

and body from an ARRAY of message lines. Requires an object already created with L<new()|Mail::Internet/"Constructors">, which contents will get overwritten.

=item \$obj-E<gt>B<new>([\$arg], [%options])

=item Mail::Internet-E<gt>B<new>([\$arg], [%options])

\$arg is optional and may be either a file descriptor (reference to a GLOB) or a reference to an array. If given the new object will be initialized with headers and body either from the array or read from the file descriptor.

The L<Mail::Header::new()|Mail::Header/"Constructors"> %options C<Modify>, C<MailFrom> and C<FoldLength> may also be given.

-Option--Default

Body []

Header undef

=over 2

=item Body => ARRAY-of-LINES

The value of this option should be a reference to an array which contains the lines for the body of the message. Each line should be terminated with C<\n> (LF). If Body is given then C<Mail::Internet> will not attempt to read the body from C<\$arg> (even if it is specified).

=item Header => Mail::Header

The

value of this option should be a L<Mail::Header|Mail::Header> object. If given then C<Mail::Internet> will not attempt to read a mail header from C<\$arg>, if

it was specified.

=back

=item \$obj-E<gt>B<read>(\$fh)

Read a message from the \$fh into an already existing message object. Better use L<new()|Mail::Internet/"Constructors"> with the \$fh as first argument.

=back

=head2 Accessors

=over 4

=item \$obj-E<gt>B<body>([\$body])

Returns the body of the message. This is a reference to an array. Each entry in the array represents a single line in the message.

If I<\$body> is given, it can be a reference to an array or an array, then the body will be replaced. If a reference is passed, it is used directly and not copied, so any subsequent changes to the array will change the contents of the body.

=item \$obj-E<gt>B<head>()

Returns the C<Mail::Header> object which holds the headers for the current message

=back

=head2 Processing the message as a whole

=over 4

=item \$obj-E<gt>B<as_mbox_string>([\$already_escaped])

Returns the message as a string in mbox format. C<\$already_escaped>, if given and true, indicates that L<escape_from()|Mail::Internet/"High-level functionality"> has already been called on this object.

=item \$obj-E<gt>B<as_string>()

Returns the message as a single string.

=item \$obj-E<gt>B<print>([\$fh])

Print the header, body or whole message to file descriptor I<\$fh>. I<\$fd> should be a reference to a GLOB. If I<\$fh> is not given the output will be sent to STDOUT.

example:

```
$mail->print( \*STDOUT ); # Print message to STDOUT
```

```
=item $obj-E<gt>B<print_body>( [$fh] )
```

Print only the body to the \$fh (default STDOUT).

```
=item $obj-E<gt>B<print_header>( [$fh] )
```

Print only the header to the \$fh (default STDOUT).

```
=back
```

```
=head2 Processing the header
```

Most of these methods are simply wrappers around methods provided by L<Mail::Header|Mail::Header>.

```
=over 4
```

```
=item $obj-E<gt>B<add>(PAIRS)
```

The PAIRS are field-name and field-content.

For each PAIR,

L<Mail::Header::add()|Mail::Header/"Processing"> is called. All fields are added after existing fields. The last addition is returned.

```
=item $obj-E<gt>B<combine>( $tag, [$with] )
```

See L<Mail::Header::combine()|Mail::Header/"Processing">.

```
=item $obj-E<gt>B<delete>( $tag, [$tags] )
```

Delete all fields with the name \$tag. L<Mail::Header::delete()|Mail::Header/"Processing"> is doing the work.

```
=item $obj-E<gt>B<fold>( [$length] )
```

See L<Mail::Header::fold()|Mail::Header/"Processing">.

```
=item $obj-E<gt>B<fold_length>( [$tag], [$length] )
```

See L<Mail::Header::fold_length()|Mail::Header/"Accessors">.

=item \$obj-E<gt>B<get>(\$tag, [\$tags])

In LIST context, all fields with the name \$tag are returned. In SCALAR context, only the first field which matches the earliest \$tag is returned.

L<Mail::Header::get()|Mail::Header/"Processing"> is called to collect the data.

=item \$obj-E<gt>B<header>(\@lines)

See L<Mail::Header::header()|Mail::Header/"Fake" constructors">.

=item

\$obj-E<gt>B<replace>(PAIRS)

The PAIRS are field-name and field-content. For each PAIR,

L<Mail::Header::replace()|Mail::Header/"Processing"> is called with index 0. If a \$field is already in the header, it will be removed first. Do not specified the same field-name twice.

=back

=head2 Processing the body

=over 4

=item \$obj-E<gt>B<remove_sig>([\$nlines])

Attempts to remove a user's signature from the body of a message. It does this by looking for a line equal to C<'-- '> within the last C<\$nlines> of the message. If found then that line and all lines after it will be removed. If C<\$nlines> is not given a default value of 10 will be used. This would be of most use in auto-reply scripts.

=item \$obj-E<gt>B<sign>(%options)

Add your signature to the body. L<remove_sig()|Mail::Internet/"Processing the body"> will strip existing signatures first.

-Option --Default

File undef

Signature []

=over 2

=item File => FILEHANDLE

Take from the FILEHANDLE all lines starting

from the first C<< -- >>.

=item Signature => STRING|ARRAY-of-LINES

=back

=item \$obj-E<gt>B<tidy_body>()

Removes all leading and trailing lines from the body that only contain white spaces.

=back

=head2 High-level functionality

=over 4

=item \$obj-E<gt>B<escape_from>()

It can cause problems with some applications if a message contains a line starting with C<`From '>, in particular when attempting to split a folder. This method inserts a leading C<`>'> on any line that matches the regular expression C</^>*From/>

=item \$obj-E<gt>B<nntp_post>([%options])

Post an article via NNTP. Requires Net::NNTP to be installed.

-Option--Default

Debug <false>

Host <required>

Port 119

=over 2

=item Debug => BOOLEAN

Debug value to pass to Net::NNTP, see L<Net::NNTP>

=item Host => HOSTNAME|Net::NNTP object

Name of NNTP server to connect to, or a Net::NNTP object to use.

=item Port => INTEGER

Port number to connect to on remote host

=back

=item \$obj-E<gt>B<reply>(%options)

Create

a new object with header initialised for a reply to the current object. And the body will be a copy of the current message indented.

The C<.mailhdr> file in your home directory (if exists) will be read first, to provide defaults.

-Option --Default

Exclude []

Indent '>'

Keep []

ReplyAll false

=over 2

=item Exclude => ARRAY-of-FIELDS

Remove the listed FIELDS from the produced message.

=item Indent => STRING

Use as indentation string. The string may contain C<%%> to get a single C<%>, C<%f> to get the first from name, C<%F> is the first character of C<%f>, C<%l> is the last name, C<%L> its first character, C<%n> the whole from string, and C<%I> the first character of each of the names in the from string.

=item Keep => ARRAY-of-FIELDS

Copy the listed FIELDS from the original message.

=item ReplyAll => BOOLEAN

Automatically include all To and Cc addresses of the original mail, excluding those mentioned in the Bcc list.

=back

=item \$obj-E<gt>B<send>(
[\$type, [\$args...]])

Send a Mail::Internet message using L<Mail::Mailer|Mail::Mailer>. \$type and \$args are passed on to L<Mail::Mailer::new()|Mail::Mailer/"Constructors">.

=item \$obj-E<gt>B<smtpsend>([%options])

Send a Mail::Internet message using direct SMTP to the given ADDRESSES, each can be either a string or a reference to a list of email addresses. If none of C<To>, <Cc> or C<Bcc> are given then the addresses are extracted from the message being sent.

The return value will be a list of email addresses that the message was sent to. If the message was not sent the list will be empty.

Requires Net::SMTP and Net::Domain to be installed.

-Option --Default

Bcc undef

Cc undef

Debug <false>

Hello localhost.localdomain

Host \$ENV{SMTPHOSTS}

MailFrom Mail::Util::mailaddress()

Port 25

To undef

=over 2

=item Bcc => ADDRESSES

=item Cc => ADDRESSES

=item Debug => BOOLEAN

Debug value to pass to Net::SMTP, see <Net::SMTP>

=item

Hello => STRING

Send a HELO (or EHLO) command to the server with the given name.

=item Host => HOSTNAME

Name of the SMTP server to connect to, or a Net::SMTP object to use

If C<Host> is not given then the SMTP host is found by attempting connections first to hosts specified in C<\$ENV{SMTPHOSTS}>, a colon separated list, then C<mailhost> and C<localhost>.

=item MailFrom => ADDRESS

The e-mail address which is used as sender. By default,

L<Mail::Util::mailaddress()|Mail::Util/"FUNCTIONS"> provides the address of the sender.

=item Port => INTEGER

Port number to connect to on remote host

=item To => ADDRESSES

=back

=item \$obj->B<unescape_from>()

Remove the escaping added by L<escape_from()|Mail::Internet/"High-level functionality">.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.

Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.

For other contributors see ChangeLog.

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Found in path(s):

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Internet.pod

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

=encoding utf8

=head1 NAME

Mail::Send - Simple electronic mail interface

=head1 SYNOPSIS

```
require Mail::Send;

$msg = Mail::Send->new;
$msg = Mail::Send->new(Subject => 'example', To => 'timbo');

$msg->to('user@host');
$msg->to('user@host', 'user2@example.com');
$msg->subject('example subject');
$msg->cc('user@host');
$msg->bcc('someone@else');

$msg->set($header, @values);
$msg->add($header, @values);
$msg->delete($header);

# Launch mailer and set headers. The filehandle returned
# by open() is an instance of the Mail::Mailer class.
# Arguments to the open() method are passed to the Mail::Mailer
# constructor.

$fh = $msg->open; # some default mailer
$fh = $msg->open('sendmail'); # explicit
print $fh "Body of message";
$fh->close      # complete the message and send it
                or die "couldn't send whole message: $!\n";
```

=head1 DESCRIPTION

L<Mail::Send|Mail::Send> creates e-mail messages without using the L<Mail::Header|Mail::Header> knowledge, which means that all escaping and folding must be done by you! Also: do not forget to escape leading dots. Simplicity has its price.

When you have time, take a look at Mail::Transport which is part of the MailBox suite.

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Send-E<gt>B<new>(PAIRS)

A list of header fields (provided as key-value PAIRS) can be used to

initialize the object, limited to the few provided as method: C<to>, C<subject>, C<cc>, and C<bcc>. For other header fields, use L<add()|Mail::Send/"Header fields">.

=back

=head2 Header fields

=over 4

=item \$obj-E<gt>B<add>(\$fieldname, @values)

Add values to the list of defined values for the \$fieldname.

=item \$obj-E<gt>B<bcc>(@values)

=item \$obj-E<gt>B<cc>(@values)

=item \$obj-E<gt>B<delete>(\$fieldname)

=item \$obj-E<gt>B<set>(\$fieldname, @values)

The @values will replace the old values for the \$fieldname. Returned is the LIST of values after modification.

=item \$obj-E<gt>B<subject>(@values)

=item \$obj-E<gt>B<to>(@values)

=back

=head2 Sending

=over 4

=item \$obj-E<gt>B<open>(%options)

The %options are used to initiate a mailer object via L<Mail::Mailer::new()|Mail::Mailer/"Constructors">. Then L<Mail::Mailer::open()|Mail::Mailer/"Constructors"> is called with the knowledge collected in this C<Mail::Send> object.

Be warned: this module implements raw smtp, which means that you have to escape lines which start with a dot, by adding one in front.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

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Mail::Field::AddrList by Peter Orbaek E<[lt>poe@cit.dkE<gt>](mailto:poe@cit.dk)>.

Mail::Mailer and Mail::Send by Tim Bunce E<[lt>Tim.Bunce@ig.co.ukE<gt>](mailto:Tim.Bunce@ig.co.uk)>.

For other contributors
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See F<<http://www.perl.com/perl/misc/Artistic.html>>

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=encoding utf8

=head1 NAME

Mail::Field::Date - a date header field

=head1 INHERITANCE

Mail::Field::Date
is a Mail::Field

=head1 SYNOPSIS

```
use HTTP::Date 'time2iso';  
my $field = Mail::Field->new(Date => time2iso());
```

=head1 DESCRIPTION

Represents one "Date" header field.

Extends L<"DESCRIPTION" in Mail::Field|Mail::Field/"DESCRIPTION">.

=head1 METHODS

Extends L<"METHODS" in Mail::Field|Mail::Field/"METHODS">.

=head2 Constructors

Extends L<"Constructors" in Mail::Field|Mail::Field/"Constructors">.

=over 4

=item Mail::Field::Date-E<gt>B<combine>(\$fields)

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::Date-E<gt>B<extract>(\$tag, \$head [, \$index])

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::Date-E<gt>B<new>(\$tag [, STRING | %options])

Inherited, see L<Mail::Field/"Constructors">

=back

=head2 "Fake" constructors

Extends L<""Fake" constructors" in Mail::Field|Mail::Field/""Fake" constructors">.

=over 4

=item \$obj-E<gt>B<create>(%options)

Inherited, see L<Mail::Field/""Fake" constructors">

=item \$obj-E<gt>B<parse>()

Inherited, see L<Mail::Field/""Fake" constructors">

=back

=head2 Accessors

Extends L<"Accessors" in Mail::Field|Mail::Field/"Accessors">.

=over 4

=item \$obj-E<gt>B<set>(%options)

-Option --Default

Time undef

TimeStr undef

=over 2

=item Time => SECONDS

=item TimeStr => STRING

A string acceptable to Date::Parse.

=back

=item \$obj-E<gt>B<stringify>()

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<tag>()

=item Mail::Field::Date-E<gt>B<tag>()

Inherited, see L<Mail::Field/"Accessors">

=back

=head2 Smart accessors

Extends L<"Smart accessors" in Mail::Field|Mail::Field/"Smart accessors">.

=over 4

=item \$obj-E<gt>B<text>([STRING])

Inherited, see L<Mail::Field/"Smart accessors">

=item \$obj-E<gt>B<time>([\$time])

Query (or change) the \$time (as stored in the field) in seconds.

=back

=head1

DETAILS

Extends L<"DETAILS" in Mail::Field|Mail::Field/"DETAILS">.

=head1 DIAGNOSTICS

=over 4

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality. Apparently, the method called is not implemented for the specific class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.
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=encoding utf8

=head1 NAME

Mail::Mailer - send simple emails

=head1 INHERITANCE

Mail::Mailer
is an IO::Handle

=head1 SYNOPSIS

```
use Mail::Mailer;
use Mail::Mailer qw(mail); # specifies default mailer
```

```
$mailer = Mail::Mailer->new;
$mailer = Mail::Mailer->new($type, @args);
```

```
$mailer->open(\%headers);
print $mailer $body;
$mailer->close
    or die "couldn't send whole message: $!\n";
```

=head1 DESCRIPTION

Sends mail using any of the built-in methods. As TYPE argument to L<new()|Mail::Mailer/"Constructors">, you can specify any of

=over 4

=item C<sendmail>

Use the C<sendmail> program to deliver the mail.

=item C<smtp>

Use the C<smtp> protocol via Net::SMTP to deliver the mail. The server to use can be specified in C<@args> with

```
$mailer = Mail::Mailer->new('smtp', Server => $server);
```

The smtp mailer does not handle C<Cc> and C<Bcc> lines, neither their C<Resent-*> fellows. The C<Debug> options enables debugging output from C<Net::SMTP>.

[added 2.21] You may also use the C<< StartTLS => 1 >> options to upgrade the connection with STARTTLS. You need C<libnet> version 1.28 (2014) for this to work.

You may also use the C<< Auth => [\$user, \$password] >> option for SASL authentication. To make this work, you have to install the L<Authen::SASL>

distribution yourself: it is not automatically installed.

=item C<smtps>

This option is B<deprecated> when you have C<libnet> 1.28 (2014) and above.

Use the smtp over ssl protocol via L<Net::SMTP::SSL> to deliver the mail.

Usage is identical to C<smtp>. You have to install Authen::SASL as well.

```
$mailer = Mail::Mailer->new('smtps', Server => $server);
```

=item C<qmail>

Use qmail's qmail-inject program to deliver the mail.

=item C<testfile>

Used for debugging, this displays the data to the file named in C<\$Mail::Mailer::testfile::config{outfile}> which defaults to a file named C<mailer.testfile>. No mail is ever sent.

=back

C<Mail::Mailer>

will search for executables in the above order. The default mailer will be the first one found.

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Mailer-E<gt>B<new>(\$type, %options)

The \$type is one of the back-end sender implementations, as described in the DESCRIPTION chapter of this manual page. The %options are passed to that back-end.

=item \$obj-E<gt>B<open>(HASH)

The HASH consists of key and value pairs, the key being the name of the header field (eg, C<To>), and the value being the corresponding contents of the header field. The value can either be a scalar (eg, C<gnat@frii.com>) or a reference to an array of scalars (C<< eg, ['gnat@frii.com', 'Tim.Bunce@ig.co.uk'] >>).

=back

=head1 DETAILS

=head2 ENVIRONMENT VARIABLES

=over 4

=item PERL_MAILERS

Augments/override the build in choice for binary used to send out our mail messages.

Format:

```
"type1:mailbinary1;mailbinary2;...:type2:mailbinaryX;...:..."
```

Example: assume you want you use private
sendmail binary instead
of mailx, one could set C<PERL_MAILERS> to:

```
"mail:/does/not/exists:sendmail:$HOME/test/bin/sendmail"
```

On systems which may include C<:> in file names, use C<|> as separator between type-groups.

```
"mail:c:/does/not/exists|sendmail:$HOME/test/bin/sendmail"
```

=back

=head2 BUGS

Mail::Mailer does not help with folding, and does not protect against various web-script hacker attacks, for instance where a new-line is inserted in the content of the field.

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<It>aas@oslonett.noE<gt>.

Mail::Field::AddrList by Peter Orbaek E<It>poe@cit.dkE<gt>.

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=encoding utf8

=head1 NAME

Mail::Header - manipulate MIME headers

=head1 SYNOPSIS

use Mail::Header;

```
my $head = Mail::Header->new;  
my $head = Mail::Header->new( \*STDIN );  
my $head = Mail::Header->new( [<>], Modify => 0);
```

=head1 DESCRIPTION

Read, write, create, and manipulate MIME headers, the leading part
of each modern e-mail message, but also used in other protocols
like HTTP. The fields are kept in L<Mail::Field|Mail::Field> objects.

Be aware that the header fields each have a name part, which shall
be treated case-insensitive, and a content part, which may be folded
over multiple lines.

Mail::Header does not always follow the RFCs strict enough, does not
help you with character encodings. It does not use weak references
where it could (because those did not exist when the module was written)
which costs some performance and make the implementation a little more
complicated. The Mail::Message::Head
implementation is much newer
and therefore better.

=head1 METHODS

=head2 Constructors

=over 4

=item \$obj-E<gt>B<dup>()

Create a duplicate of the current object.

=item \$obj-E<gt>B<new>([\$source], [%options])

=item Mail::Header-E<gt>B<new>([\$source], [%options])

The \$source may be either a file descriptor (reference to a GLOB) or a reference to an array. If given the new object will be initialized with headers either from the array or read from the file descriptor.

%options is a list of options given in the form of key-value pairs, just like a hash table. Valid options are

-Option --Default
FoldLength 79
MailFrom 'KEEP'
Modify false

=over 2

=item FoldLength => INTEGER

The default length of line to be used when folding header lines. See L<fold_length()|Mail::Header/"Accessors">.

=item MailFrom => 'IGNORE'|'COERCE'|'KEEP'|'ERROR'

See method L<mail_from()|Mail::Header/"Accessors">.

=item Modify => BOOLEAN

If this value is I<true> then the headers will be re-formatted, otherwise the format of the header lines will remain unchanged.

=back

=back

=head2 "Fake" constructors

Be warned that the next constructors all require an already created header object, of which the original content will be destroyed.

=over 4

=item \$obj-E<gt>B<empty>()

Empty an existing C<Mail::Header> object of all lines.

=item \$obj-E<gt>B<extract>(ARRAY)

Extract a header from the given array into an existing Mail::Header object. C<extract> B<will modify> this array.
Returns the object that the method was called on.

=item \$obj-E<gt>B<header>([ARRAY])

C<header> does multiple operations. First it will extract a header from the ARRAY, if given. It will then reformat the header (if reformatting is permitted), and finally return a reference to an array which contains the header in a printable form.

=item \$obj-E<gt>B<header_hashref>([HASH])

As L<header()|Mail::Header/""Fake" constructors">, but it will eventually set headers from a hash reference,
and it will return the headers as a hash reference.

example:

```
$fields->{From} = 'Tobias Brox <tobix@cpan.org>';  
$fields->{To} = ['you@somewhere', 'me@localhost'];  
$head->header_hashref($fields);
```

=item \$obj-E<gt>B<read>(\$fh)

Read a header from the given file descriptor into an existing Mail::Header object.

=back

=head2 Accessors

=over 4

=item \$obj-E<gt>B<fold_length>([\$tag], [\$length])

Set the default fold length for all tags or just one. With no arguments the default fold length is returned. With two arguments it sets the fold length for the given tag and returns the previous value. If only C<\$length> is given it sets the default fold length for the current object.

In the two argument form C<fold_length> may be called as a static method, setting default fold lengths for tags that will be used by B<all> C<Mail::Header> objects. See the C<fold> method for a description on how C<Mail::Header> uses these values.

=item \$obj-E<gt>B<mail_from>('IGNORE'|'COERCE'|'KEEP'|'ERROR')

This

specifies what to do when a C<`From '> line is encountered.

Valid values are C<IGNORE> - ignore and discard the header,

C<ERROR> - invoke an error (call die), C<COERCE> - rename them as Mail-From and C<KEEP> - keep them.

=item \$obj-E<gt>B<modify>([\$value])

If C<\$value> is I<false> then C<Mail::Header> will not do any automatic reformatting of the headers, other than to ensure that the line starts with the tags given.

=back

=head2 Processing

=over 4

=item \$obj-E<gt>B<add>(\$tag, \$line [, \$index])

Add a new line to the header. If \$tag is C<undef> the tag will be extracted from the beginning of the given line. If \$index is given, the new line will be inserted into the header at the given point, otherwise the new line will be appended to the end of the header.

=item \$obj-E<gt>B<as_string>()

Returns the header as a single string.

=item \$obj-E<gt>B<cleanup>()

Remove any header line that, other than the tag, only contains whitespace

=item \$obj-E<gt>B<combine>(\$tag [,

\$with])

Combine all instances of \$tag into one. The lines will be joined together \$with, or a single space if not given. The new item will be positioned in the header where the first instance was, all other instances of \$tag will be removed.

=item \$obj-E<gt>B<count>(\$tag)

Returns the number of times the given atg appears in the header

=item \$obj-E<gt>B<delete>(\$tag [, \$index])

Delete a tag from the header. If an \$index id is given, then the Nth instance of the tag will be removed. If no \$index is given, then all instances of tag will be removed.

=item \$obj-E<gt>B<fold>([\$length])

Fold the header. If \$length is not given, then C<Mail::Header> uses the following rules to determine what length to fold a line.

=item \$obj-E<gt>B<get>(\$tag [, \$index])

Get the text from a line. If an \$index is given, then the text of the Nth instance will be returned. If it is not given the return value depends on the context in which C<get> was called. In an array context a list of all the text

from all the instances of the \$tag will be returned. In a scalar context the text for the first instance will be returned.

The lines are unfolded, but still terminated with a new-line (see C<chomp>)

=item \$obj-E<gt>B<print>([\$fh])

Print the header to the given file descriptor, or C<STDOUT> if no file descriptor is given.

=item \$obj-E<gt>B<replace>(\$tag, \$line [, \$index])

Replace a line in the header. If \$tag is C<undef> the tag will be extracted from the beginning of the given line. If \$index is given the new line will replace the Nth instance of that tag, otherwise the first instance of the tag is replaced. If the tag does not appear in the header then a new line will be appended to the header.

=item \$obj-E<gt>B<tags>()

Returns an array of all the tags that exist in the header. Each tag will only appear in the list once. The order of the tags is not specified.

=item \$obj->B<unfold>([\$tag])

Unfold all instances of the given tag so that they do not spread across multiple

lines. If C<\$tag> is not given then all lines are unfolded.

The unfolding process is wrong but (for compatibility reasons) will not be repaired: only one blank at the start of the line should be removed, not all of them.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.

Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.

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Found

in path(s):

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Header.pod

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#!/usr/bin/perl -w

Note by Mark Overmeer:

This script does work, but Mail::Send may provide a nicer interface

```

# NAME
# mail-mailer.pl - Smtplib client written in Perl
#
# SYNOPSIS
# mail-mailer.pl -s "Test" --smtp=my-smtp-server.com admin@net1.net
#
# INTRODUCTION
# This script can be an alternative to the 'mail' Unix command when
# sending e-mails.
# It reads the mail body from the standard input.
# If your system is Windows, use the '--smtp' option to send your
# e-mails.
# This script works in Linux, Unix and Windows environments.
#
# OPTIONS
# -f From
# -s Subject
# -c Cc-address
# -b bcc-address
# --sendmail Use sendmail to send the e-mail
# --qmail Use qmail-inject to send the e-mail
# --smtp=HOSTNAME Use HOSTNAME as the SMTP server.
# --help Prints the help info and exits
#
# EXAMPLES
# cat mailbody.txt | mail-mailer.pl -f me@mydom.com -s "Hy dude" --sendmail friend@dom.com
#
#
AUTHOR
# Bruno Negrao G Zica <bnegrao@engepel.com.br>
#
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#
# LAST MODIFIED
# 01/12/2004
#####
use Mail::Mailer;
use Getopt::Long;
use strict;

# hash that'll receive the arguments and options
my %opt;
GetOptions ( \%opt, 'help', 'f=s', 's=s', 'c=s', 'b=s', 'sendmail',
'qmail', 'smtp=s' );

```

```

if ($opt{help}) { help(); exit 0; }

$opt{to} = $ARGV[$#ARGV]; # the "To" address is the last argument
die "Error: You didn't specify a destination e-mail address.\n"
unless ( $opt{to} || $opt{c} || $opt{b} );

# Defining the method to send the message
my $mailer; # Mail::Mailer object
if ($opt{sendmail}) {
    $mailer = new Mail::Mailer 'sendmail';
} elsif ($opt{qmail}) {
    $mailer = new Mail::Mailer 'qmail';
} elsif ($opt{smtp}) {
    $mailer = new Mail::Mailer
'smtp', Server => $opt{smtp};
} else {
    die "Error: you didn't specify the delivery method. ".
        "Possible methods are:\n'--qmail', '--sendmail', and ".
        "--smtp=HOSTNAME\n";
}

# Setting the headers
my %headers; # hash with the e-mail headers
$headers{To} = $opt{to};
$headers{From} = $opt{f} if defined $opt{f};
$headers{Cc} = $opt{c} if defined $opt{c};
$headers{Bcc} = $opt{b} if defined $opt{b};
$headers{Subject} = $opt{s} if defined $opt{s};
$mailer->open(\%headers);

# Reading and feeding the e-mail body
while (<STDIN>) {
    last if ( $_ =~ /\^\.$/ );
    print $mailer $_;
}

# Finishing
$mailer->close();

# Subroutines
sub help {
    print '
Example 1: Entering the e-mail body by hand:
mail-mailer.pl -s "Hy buddy" --qmail friend@domain.com
[ ENTER YOU MESSAGE BODY ]
[ A SINGLE . (dot sign) ALONE IN ONE LINE TO SAY ]
[ YOU FINISHED YOUR E-MAIL ]
.

```

Example 2: Using the output of another program as the body:

```
dir c:\ | perl mail-mailer.pl -f me@mydom.com -s "My c:\" admin@mydom.com
--smtp=server1.mydom.com
```

OPTIONS

```
-f addr  From address.
-s TEXT  Subject.
-c addr  Cc-address.
-b addr  bcc-address.
--sendmail  Use sendmail to send the e-mail.
--qmail  Use qmail-inject to send the e-mail.
--smtp HOSTNAME  Use HOSTNAME as the SMTP server.
--help  Prints this help text.
';
}
```

Found in path(s):

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/examples/mail-mailer.pl

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abstract: 'Various ancient e-mail related modules'

author:

- 'Mark Overmeer <markov@cpan.org>'

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.3, CPAN::Meta::Converter version 2.150010'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: MailTools

no_index:

directory:

- t

- inc

requires:

Date::Format: '0'

Date::Parse: '0'

IO::Handle: '0'

Net::Domain: '1.05'

Net::SMTP: '1.03'

Test::More: '0'

resources:

homepage: <http://perl.overmeer.net/CPAN/>
license: <http://dev.perl.org/licenses/>
repository: <https://github.com/markov2/perl5-MailTools.git>
version: '2.21'
x_serialization_backend: 'CPAN::Meta::YAML version 0.011'

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=encoding utf8

=head1 NAME

Mail::Util - mail utility functions

=head1 INHERITANCE

Mail::Util

is a Exporter

=head1 SYNOPSIS

```
use Mail::Util qw( ... );
```

=head1 DESCRIPTION

This package provides several mail related utility functions. Any function required must be explicitly listed on the use line to be exported into the calling package.

=head1 FUNCTIONS

=over 4

=item B<mailaddress>([\$address])

Return a guess at the current users mail address. The user can force the return value by setting the MAILADDRESS environment variable.
[2.10] You may set the \$address via the parameter.

WARNING:

When not supplied via the environment variable, <mailaddress> looks at various configuration files and other environmental data. Although this seems to be smart behavior, this is not predictable enough (IMHO) to be used. Please set the MAILADDRESS explicitly, and do not trust on the "automatic detection", even when that

produces a correct address
(on the moment)

example:

```
# in your main script
$ENV{MAILADDRESS} = 'me@example.com';
```

```
# everywhere else
use Mail::Util 'mailaddress';
print mailaddress;
```

```
# since v2.10
mailaddress "me@example.com";
```

```
=item B<maildomain>()
```

Attempt to determine the current user mail domain string via the following methods

```
=over 4
```

```
=item * Look for the MAILDOMAIN environment variable, which can be set from outside the program. This is by far the best way to configure the domain.
```

```
=item * Look for a sendmail.cf file and extract DH parameter
```

```
=item * Look for a smail config file and use the first host defined in hostname(s)
```

```
=item * Try an SMTP connect (if Net::SMTP exists) first to mailhost then localhost
```

```
=item * Use value from Net::Domain::domainname (if Net::Domain exists)
```

```
=back
```

WARNING:

On modern machines, there is only one good way to provide information to this method: the first; always explicitly configure the MAILDOMAIN.

example:

```
# in your main script
$ENV{MAILDOMAIN} = 'example.com';
```

```
# everywhere else
use Mail::Util 'maildomain';
print maildomain;
```

=item B<read_mbox>(\$file)

Read \$file, a binmail mailbox file, and return a list of references.
Each reference is a reference to an array containing one message.

WARNING:

This method does not quote lines which accidentally also start with the message separator C<From>, so this implementation can be considered broken. See Mail::Box::Mbox

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

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Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.

For other contributors see ChangeLog.

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* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Util.pod

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=encoding utf8

=head1 NAME

Mail::Filter - filter mail through multiple subroutines

=head1 SYNOPSIS

```
use Mail::Filter;
```

```
my $filter = Mail::Filter->new( \&filter1, \&filter2 );
```

```
my $mail = Mail::Internet->new( [<>] );
```

```
my $mail = $filter->filter($mail);
```

```
my $folder = Mail::Folder->new( .... );
```

```
my $filter->filter($folder);
```

=head1 DESCRIPTION

C<Mail::Filter> provides an interface to filtering Email through multiple subroutines.

C<Mail::Filter> filters mail by calling each filter subroutine in turn. Each filter subroutine is called with two arguments, the first is the filter object and the second is the mail or folder object being filtered.

The result from each filter sub is passed to the next filter as the mail object. If a filter subroutine returns undef, then C<Mail::Filter> will abort and return immediately.

The function returns the result from the last subroutine to operate on the mail object.

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Filter-E<gt>B<new>(@filters)

Create a new C<Mail::Filter> object with the given filter subroutines. Each filter may be either a code reference or the name of a method to call on the <Mail::Filter> object.

=back

=head2 Accessors

=over 4

=item \$obj-E<gt>B<add>(@filters)

Add the given @filters to the end of the filter list.

=back

=head2 Processing

=over 4

=item \$obj-E<gt>B<filter>(\$mail|\$folder)

If the first argument is a L<Mail::Internet|Mail::Internet> object, then this object will be passed through the filter list. If the first argument is a Mail::Folder object, then each message in turn will be passed through the filter list.

=item \$obj-E<gt>B<folder>()

While the L<filter()|Mail::Filter/"Processing"> method is called with a Mail::Folder object, these filter subroutines can call this method to obtain the folder object that is being processed.

=item \$obj-E<gt>B<msgnum>()

If the L<filter()|Mail::Filter/"Processing"> method is called with a Mail::Folder object, then the filter subroutines may call this method to obtain the message number of the message that is being processed.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

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* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Field/Date.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Field/Generic.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Address.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer/testfile.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Field.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Util.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer/sendmail.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Filter.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Cap.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Header.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer/smtps.pm

*

/libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer/qmail.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Field/AddrList.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/MailTools.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer/smtp.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Internet.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Send.pm

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer/rfc822.pm

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=encoding utf8

=head1 NAME

Mail::Cap - understand mailcap files

=head1 SYNOPSIS

```
my $mc = Mail::Cap->new;
```

```
my $desc = $mc->description('image/gif');
```

```
print "GIF desc: $desc\n";
```

```
my $cmd = $mc->viewCmd('text/plain; charset=iso-8859-1', 'file.txt');
```

=head1 DESCRIPTION

Parse mailcap files as specified in "RFC 1524 --A User Agent Configuration Mechanism For Multimedia Mail Format Information". In the description below C<\$type> refers to the MIME type as specified in the C<Content-Type> header of mail or HTTP messages. Examples of types are:

```
image/gif
text/html
text/plain; charset=iso-8859-1
```

You could also take a look at the File::MimeInfo distribution, which are accessing tables which are used by many applications on a system, and therefore have succeeded the mail-cap specifications on modern (UNIX) systems.

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Cap-E<gt>B<new>(%options)

Create

and initialize a new Mail::Cap object. If you give it an argument it will try to parse the specified file. Without any arguments it will search for the mailcap file using the standard mailcap path, or the MAILCAPS environment variable if it is defined.

-Option --Default

```
filename undef
take 'FIRST'
```

=over 2

=item filename => FILENAME

Add the specified file to the list to standard locations. This file is tried first.

=item take => 'ALL'|'FIRST'

Include all mailcap files you can find. By default, only the first file is parsed, however the RFC tells us to include ALL. To maintain backwards compatibility, the default only takes the FIRST.

=back

example:

```
$mcap = new Mail::Cap;  
$mcap = new Mail::Cap "/mydir/mailcap";  
$mcap = new Mail::Cap filename => "/mydir/mailcap";  
$mcap = new Mail::Cap take => 'ALL';  
$mcap = Mail::Cap->new(take => 'ALL');
```

=back

=head2 Run commands

These methods invoke a suitable program presenting or manipulating the media object in the specified file. They all return C<1> if a command was found, and C<0> otherwise. You might test C<\$?> for the outcome of the command.

=over 4

=item \$obj-E<gt>B<compose>(\$type, \$file)

=item \$obj-E<gt>B<edit>(\$type, \$file)

=item \$obj-E<gt>B<print>(\$type, \$file)

=item \$obj-E<gt>B<view>(\$type, \$file)

=back

=head2 Command creator

These methods return a string that is suitable for feeding to system() in order to invoke a suitable program presenting or manipulating the media object in the specified file. It will return C<undef> if no suitable specification exists.

=over 4

=item \$obj-E<gt>B<composeCmd>(\$type, \$file)

=item \$obj-E<gt>B<editCmd>(\$type, \$file)

=item \$obj-E<gt>B<printCmd>(\$type, \$file)

=item \$obj-E<gt>B<viewCmd>(\$type, \$file)

=back

=head2 Look-up definitions

Methods return the corresponding mailcap field for the type.

=over 4

=item \$obj-E<gt>B<description>(\$type)

=item \$obj-E<gt>B<field>(\$type, \$field)

Returns the specified field for the type. Returns undef if no specification exists.

=item \$obj-E<gt>B<nametemplate>(\$type)

=item \$obj-E<gt>B<textualnewlines>(\$type)

=item \$obj-E<gt>B<x11_bitmap>(\$type)

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.

Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.

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Found in path(s):

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Cap.pod

1.11 readline 8.1

1.11.1 Available under license :

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1.12 liberation-fonts 1.07.4-11

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Mesa 3-D graphics library

Version: 7.0

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1.30 xorg-randr 1.5.2

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1.31 env-paths 2.2.1

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1.32 libxml-xpathengine-perl 0.14-1

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```
{ system $^X . q{ -p -i -e's{^((.*)distribution_type: module(.*))}{$1\n$2license: perl$3}m' Makefile}; }
```

Found in path(s):

* /libxml-xpathengine-perl-0-14-orig-1-tar-gz/XML-XPathEngine-0.14/Makefile.PL

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abstract: 'a re-usable XPath engine for DOM-like trees'

author:

- 'Michel Rodriguez <mirod@cpan.org>'

build_requires:

ExtUtils::MakeMaker: 0

configure_requires:

ExtUtils::MakeMaker: 0

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.120921'

license: unknown

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: XML-XPathEngine

no_index:

directory:

- t

- inc

requires:

Test::More: 0

version: 0.14

Found in path(s):

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XML-XPathEngine

This module is used to add XPath support to XML modules.

INSTALLATION

To install this module, run the following commands:

```
perl Makefile.PL
make
make test
make install
```

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=head1 NAME

XML::XPathEngine - a re-usable XPath engine for DOM-like trees

=head1 DESCRIPTION

This module provides an XPath engine, that can be re-used by other module/classes that implement trees.

In order to use the XPath engine, nodes in the user module need to mimick DOM nodes. The degree of similitude between the user tree and a DOM dictates how much of the XPath features can be used. A module implementing all of the DOM should be able to use this module very easily (you might need to add the cmp method on nodes in order to get ordered result sets).

This code is a more or less direct copy of the L<XML::XPath> module by Matt Sergeant. I only removed the XML processing part to remove the dependency on XML::Parser, applied a couple of patches, renamed a whole lot of methods to make Pod::Coverage happy, and changed the docs.

The article eXtending XML XPath, http://www.xmltwig.com/article/extending_xml_xpath/ should

give authors who want to use this module enough background to do so.

Otherwise, my email is below ;--)

B<WARNING>: while the underlying code is rather solid, this module mostly lacks docs. As they say, "patches welcome"...

=head1 SYNOPSIS

```
use XML::XPathEngine;
```

```
my $tree= my_tree->new( ...);
```

```
my $xp = XML::XPathEngine->new();
```

```
my @nodeset = $xp->find('/root/kid/grandkid[1]', $tree); # find all first grankids
```

```
package XML::MyTree;
```

```
# needs to provide DOM methods
```

=head1 DETAILS

=head1 API

XML::XPathEngine will provide the following methods:

=head2 new

=head2 findnodes (\$path, \$context)

Returns a list of nodes found by \$path, optionally in context \$context. In scalar context returns an XML::XPathEngine::NodeSet object.

=head2 findnodes_as_string (\$path, \$context)

Returns the nodes found as a single string. The result is not guaranteed to be valid XML though (it could for example be just text if the query returns attribute values).

=head2

findnodes_as_strings (\$path, \$context)

Returns the nodes found as a list of strings, one per node found.

=head2 findvalue (\$path, \$context)

Returns the result as a string (the concatenation of the values of the result nodes).

`=head2 findvalues($path, $context)`

Returns the values of the result nodes as a list of strings.

`=head2 exists ($path, $context)`

Returns true if the given path exists.

`=head2 matches($node, $path, $context)`

Returns true if the node matches the path.

`=head2 find ($path, $context)`

The find function takes an XPath expression (a string) and returns either a `XML::XPathEngine::NodeSet` object containing the nodes it found (or empty if no nodes matched the path), or one of `XML::XPathEngine::Literal` (a string), `XML::XPathEngine::Number`, or `XML::XPathEngine::Boolean`. It should always return something - and you can use `->isa()` to find out what it returned. If you need to check how many nodes it found you should check `$nodeset->size`. See `L<XML::XPathEngine::NodeSet>`.

`=head2 getNodeText ($path)`

Returns the text string for a particular node. Returns a string, or undef if the node doesn't exist.

`=head2 set_namespace ($prefix, $uri)`

Sets the namespace prefix mapping to the uri.

Normally in `XML::XPathEngine` the prefixes in XPath node tests take their context from the current node. This means that `foo:bar` will always match an element `<foo:bar>` regardless of the namespace that the prefix `foo` is mapped to (which might even change within the document, resulting in unexpected results). In order to make prefixes in XPath node tests actually map to a real URI, you need to enable that via a call to the `set_namespace` method of your `XML::XPathEngine` object.

`=head2 clear_namespaces ()`

Clears all previously set namespace mappings.

=head2 get_namespace (\$prefix, \$node)

Returns the uri associated to the prefix for the node (mostly for internal usage)

=head2 set_strict_namespaces (\$strict)

By default, for historical as well as convenience reasons,

XML::XPathEngine

has a slightly non-standard way of dealing with the default namespace.

If you search for C<tag> it will return elements C<tag>. As far as I understand it,

if the document has a default namespace, this should not return anything.

You would have to first do a C<set_namespace>, and then search using the namespace.

Passing a true value to C<set_strict_namespaces> will activate this behaviour, passing a false value will return it to its default behaviour.

=head2 set_var (\$var, \$val)

Sets an XPath variable (that can be used in queries as C<\$var>)

=head2 get_var (\$var)

Returns the value of the XPath variable (mostly for internal usage)

=head2 \$XML::XPathEngine::Namespaces

Set this to 0 if you I<don't> want namespace processing to occur. This will make everything a little (tiny) bit faster, but you'll suffer for it, probably.

=head1 Node Object Model

Nodes need to provide the same API as nodes in XML::XPath (at least the access API, not the tree manipulation one).

=head1

Example

Please see the test files in t/ for examples on how to use XPath.

=head1 XPath extension

The module supports the XPath recommendation to the same extend as XML::XPath (that is, rather completely).

It includes a perl-specific extension: direct support for regular expressions.

You can use the usual (in Perl!) C<=~> and C<!~> operators. Regular expressions are / delimited (no other delimiter is accepted, \ inside regexp must be backslashed), the C<imsx> modifiers can be used.

```
$xp->findnodes( '//@att[.=~ /^v.$/]'); # returns the list of attributes att
# whose value matches ^v.$
```

=head1 SEE ALSO

L<XML::XPath>

L<HTML::TreeBuilder::XPath>, L<XML::Twig::XPath> for examples of using this module

L<Tree::XPathEngine> for a similar module for non-XML trees.

L<http://www.xmltwig.com/article/extending_xml_xpath/> for background information. The last section of the article summarizes how to reuse XML::XPath.

As XML::XPathEngine

offers the same API it should help you

=head1 AUTHOR

Michel Rodriguez, C<< <mirod@cpan.org> >>

Most code comes directly from XML::XPath, by Matt Sergeant.

=head1 BUGS

Please report any bugs or feature requests to

C<bug-tree-xpathengine@rt.cpan.org>, or through the web interface at

L<<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=XML-XPathEngine>>.

I will be notified, and then you'll automatically be notified of progress on your bug as I make changes.

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=cut

1; # End of XML::XPathEngine

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* /libxml-xpathengine-perl-0-14-orig-1-tar-gz/XML-XPathEngine-0.14/lib/XML/XPathEngine.pm

1.33 aggregate-error 3.1.0

1.33.1 Available under license :

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1.34 netbase 6.3

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It is currently maintained by Marco d'Itri <md@linux.it>.

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1.35 adduser 3.118ubuntu5

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
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Since May 20 2000, it is maintained by Roland Bauerschmidt
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Since March 24 2004, it is maintained by Roland Bauerschmidt
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Since June 2006, it has been maintained by Stephen Gran <sgran@debian.org>

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1.36 ubuntu-keyring 2021.03.26

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1.37 jsbn 1.1.0

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1.38 fonts-arphic-uming 0.2.20080216.2-10ubuntu2

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10

dir

4340

svn+ssh://svn.debian.org/svn/pkg-fonts/packages/ttf-arphic-uming/trunk/license

svn+ssh://svn.debian.org/svn/pkg-fonts

2010-05-29T06:32:24.059815Z

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svn+ssh://svn.debian.org/svn/pkg-fonts

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4340

svn+ssh://svn.debian.org/svn/pkg-fonts/packages/ttf-arphic-uming/trunk/license/zh_CN.utf-8

svn+ssh://svn.debian.org/svn/pkg-fonts

2010-05-29T06:32:24.059815Z

2544

henrich

7376ef65-540e-0410-8a1a-a90064c4b4ec

ARPHICPL.txt

file

2011-11-12T19:17:17.000000Z

c39f5c96427c8be4a880a0d4b3b0959e

2010-05-29T06:32:24.059815Z

2544

henrich

has-props

5806

10

dir

4340

svn+ssh://svn.debian.org/svn/pkg-fonts/packages/ttf-arphic-uming/trunk/license/zh_TW.utf-8

svn+ssh://svn.debian.org/svn/pkg-fonts

2010-05-29T06:32:24.059815Z

2544

henrich

7376ef65-540e-0410-8a1a-a90064c4b4ec

ARPHICPL.txt

file

2011-11-12T19:17:17.000000Z

3b6d9e59a18f060ce8a85355e83b83a7

2010-05-29T06:32:24.059815Z

2544

henrich

has-props

5812

10

dir

4340

svn+ssh://svn.debian.org/svn/pkg-fonts/packages/ttf-arphic-uming/trunk/license/gb

svn+ssh://svn.debian.org/svn/pkg-fonts

2010-05-29T06:32:24.059815Z

2544

henrich

7376ef65-540e-0410-8a1a-a90064c4b4ec

ARPHICPL.TXT

file

2011-11-12T19:17:17.000000Z

6b5996f38d448afee4cb57628af5e0d7

2010-05-29T06:32:24.059815Z

2544

henrich

has-props

3928

10

dir

4340

svn+ssh://svn.debian.org/svn/pkg-fonts/packages/ttf-arphic-uming/trunk/license/english

svn+ssh://svn.debian.org/svn/pkg-fonts

2010-05-29T06:32:24.059815Z

2544

henrich

7376ef65-540e-0410-8a1a-a90064c4b4ec

ARPHICPL.TXT

file

2011-11-12T19:17:17.000000Z
4555ed88e9a72fc9562af379d07c3350
2010-05-29T06:32:24.059815Z
2544
henrich

6901

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1.40 err-code 2.0.3

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1.41 xfonts-base 1.0.5

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Source package: xfonts-base

Obtained from:

<https://xorg.freedesktop.org/releases/individual/font/>

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font-cursor-misc

font-daewoo-misc

font-dec-misc

font-isas-misc

font-jis-misc

font-micro-misc

font-misc-misc

font-mutt-misc

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vim:set ai et sw=4 ts=4 tw=80:

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1.42 liblwp-protocol-https-perl 6.10-1

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1.45 libhttp-date-perl 6.05-1

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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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patches, bug reports, help with troubleshooting, etc. A huge
'thank you' to all of them.

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1.46 liblwp-mediatypes-perl 6.04-1

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1.47 libhtml-tagset-perl 3.20-4

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README for HTML::Tagset

HTML::Tagset

This module contains data tables useful in dealing with HTML.

It provides no functions or methods.

PREREQUISITES

This suite requires Perl 5.

HTML::Tagset doesn't use any nonstandard modules.

INSTALLATION

You install HTML::Tagset, as you would install any perl module library, by running these commands:

```
perl Makefile.PL
make
make test
make install
```

If you want to install a private copy of HTML::Tagset in your home directory, then you should try to produce the initial Makefile with something like this command:

```
perl Makefile.PL LIB=~/.perl
```

DOCUMENTATION

POD-format documentation is included in Tagset.pm. POD is readable with the 'perldoc' utility. See ChangeLog for recent changes.

MACPERL INSTALLATION NOTES

Don't bother with the makefiles. Just make a HTML directory in your MacPerl site_lib or lib directory, and move Tagset.pm into there.

SUPPORT

Questions, bug reports, and suggestions for HTML::Tagset should just be sent to me at sburke@cpan.org

AVAILABILITY

The latest version of HTML::Tagset is available from the Comprehensive Perl Archive Network (CPAN). Visit <http://www.perl.com/CPAN/> to find a CPAN site near you.

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=head1 CAVEATS

You may find it useful to alter the behavior of modules (like C<HTML::Element> or C<HTML::TreeBuilder>) that use C<HTML::Tagset>'s data tables by altering the data tables themselves. You are welcome to try, but be careful; and be aware that different modules may or may react differently to the data tables being changed.

Note that it may be inappropriate to use these tables for I<producing> HTML -- for example, C<%isHeadOrBodyElement> lists the tagnames for all elements that can appear either in the head or in the body, such as "script". That doesn't mean that I am saying your code that produces HTML should feel free to put script elements in either place! If you are producing programs that spit out HTML, you should be I<intimately> familiar with the DTDs for HTML or XHTML (available at C<<http://www.w3.org/>>), and you should slavishly obey them, not the data tables in this document.

=head1 SEE ALSO

L<HTML::Element>,
L<HTML::TreeBuilder>, L<HTML::LinkExtor>

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Most of the code/data in this module was adapted from code written by Gisle Aas for C<HTML::Element>, C<HTML::TreeBuilder>, and C<HTML::LinkExtor>. Then it was maintained by Sean M. Burke.

=head1 AUTHOR

Current maintainer: Andy Lester, C<< <andy at petdance.com> >>

=head1 BUGS

Please report any bugs or feature requests to
C<bug-html-tagset at rt.cpan.org>, or through the web interface at
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your bug as I make changes.

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Found in path(s):
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1.48 libhtml-form-perl 6.07-1

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1.52 v8 9.9.9.9

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

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

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

All

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

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1.3 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		
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1.53 io-stringy 2.111-3

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1.54 minizip 1.1-8build1

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/* 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>)

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Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

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Changes

See header of unzip64.c

*/

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* /minizip-1-1-orig-tar-xz/minizip/unzip.h

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

Version 1.1, February 14h, 2010

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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.

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(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

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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

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*/

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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 an 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 changes 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 created 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 needs to be defined.

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* /minizip-1-1-orig-tar-xz/minizip/MiniZip64_info.txt

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/*

Additional tools for Minizip

Code: Xavier Roche '2004

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

*/

Found in path(s):

* /minizip-1-1-orig-tar-xz/minizip/mztools.c

* /minizip-1-1-orig-tar-xz/minizip/mztools.h

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

Version 1.1, February 14h, 2010

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Modifications for Zip64 support

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Changes

See header of zip.h

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1.55 path-key 3.1.1

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1.56 wrap-ansi 7.0.0

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1.57 shebang-regex 3.0.0

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1.58 cssesc 3.0.0

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1.59 balanced-match 1.0.2

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1.61 ansi-regex 5.0.1

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1.62 string-width 4.2.3

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1.64 negotiator 0.6.3

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1.65 cpp 11.2.0-1ubuntu1

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1.67 libilbc 3.0.4

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*

* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>

* Date: Fri, Jun 24, 2011 at 3:20 AM

* Subject: Re: sqrt routine

* To: Kevin Ma <kma@google.com>

* Hi Kevin,

* Thanks for asking. Those routines are public domain (originally posted to
* comp.sys.arm a long time ago), so you can use them freely for any purpose.

* Cheers,

* Wilco

*

* ----- Original Message -----

* From: "Kevin Ma" <kma@google.com>

* To: <Wilco.Dijkstra@ntlworld.com>

* Sent: Thursday, June 23, 2011 11:44 PM

* Subject: Fwd: sqrt routine

* Hi Wilco,

* I saw your sqrt routine from several web sites, including

* <http://www.finesse.demon.co.uk/steven/sqrt.html>.

* Just wonder if there's any copyright information with your Successive
* approximation routines, or if I can freely use it for any purpose.

* Thanks.

* Kevin

*/

1.68 protobuf 1.5.0

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1.70 string-width 5.1.2

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1.71 onrik-logrus 0.9.0

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1.74 prometheus-client 1.11.1

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1.75 tdb 1.46.5

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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>.

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

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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Theodore Ts'o
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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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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:

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

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

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

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This is the Debian GNU/Linux prepackaged version of the Common Error
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system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
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hostname -- set the host name or show the host/domain name

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1.80 berkeley-db 5.3.28+dfsg1-0.8ubuntu3

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1.82 libsepol 3.3-1build1

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Any executables

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1.84 libffi 3.4.2-4

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1.89 attr 2.5.1-1build1

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1.95 libtasn 4.18.0-4build1

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Version 2.1, February 1999

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1.98 sysv-init 3.01-1ubuntu1

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.100 sed 4.8-1ubuntu2

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1.101 keyutils 1.6.1-2ubuntu3

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which
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from a designated place, then offering equivalent access to copy the
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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Any executables containing that work also fall under Section 6,
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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

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1.102 lz4 1.9.3-2build2

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Upstream-Name: liblz4

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

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

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1.103 debianutils 5.5-1ubuntu2

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*

* Debian ischroot program

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*

* Debian run-parts program

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1.104 acl 2.3.1-1

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1.112 mawk 1.3.4.20200120-3

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1.113 selinux 3.3-1build2

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1.114 libxcrypt 4.4.27-1

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1.115 libassuan 2.5.5-1build1

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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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man/fmtcheck.3bsd

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man/stringlist.3bsd

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man/sha1.3

man/sha2.3

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1.119 gdbm 1.23-1

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1.124 libpng 1.6.37-3build5

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1.133 libdeflate 1.10-2

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1.134 libjpeg 8c-2ubuntu10

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

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

```
Gnomovision version 69, Copyright (C) year 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 is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`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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Version 2.1, February 1999

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot

effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

that program using a modified version of the Library.

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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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.

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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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<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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0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked

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e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

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-*- 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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1.137 shared-mime-info 2.1-2

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1.147 elfutils 0.186-1build1

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1.148 icu 70.1-2

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```
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
```

```

LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/\($*\)\.o[ :]*/\1.o $@ : /g"' > $@; \
[ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/\($*\)\.o[ :]*/\1.o $@ : /g"' > $@; \
[ -s $@ ] || rm -f $@

## Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

```

```
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
## End BSD-specific setup
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```

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Any

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1.150 libxmu 1.1.3-3

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1.151 libtirpc 1.3.2-2ubuntu0.1

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1.152 gotenv 1.2.0

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1.153 libclone-perl 0.45-1build3

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Found in path(s):

* /libclone-perl-0-45-orig-tar-gz/Clone-0.45/t/dump.pl

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Revision history for Perl module Clone

0.45 2020-04-23 14:46:00 atoomic

- bump B::COW requirement to fix big-endian issue

- 0.44 2020-04-20 11:30:00 atoomic
- support Perls with COW disabled (plicease)
 - bump B::COW requirement for testing
- 0.43 2019-07-29 13:47:42 atoomic
- fix an issue when cloning a NULL mg_ptr pointer
- 0.42 2019-07-19 23:06:04 garu
- make handling of mg_ptr safer (ATOOMIC, Harald Jörg)
 - change license wording on some test files to make the entire dist released under the same terms as Perl itself (fixes GH#20) (GARU)
- 0.41 2018-10-25 10:20:03 garu
- Check the CowREFCNT of a COWed PV (ATOOMIC) this should fix some issues people have been having with 0.40 on DBD drives and DBIx::Class
 - Make buildtools files not executable (Mohammad S Anwar)
 - Move bugtracker to Github (GARU)
- 0.40 2018-10-23 20:00:49 garu
- reuse COWed PV when cloning (fixes RT97535) (ATOOMIC)
 - extra protection against potential infinite loop (ATOOMIC)
 - improved tests
- 0.39 2017-04-07 13:06:00 garu
- use explicit '.' in tests since it may not be in @INC anymore in newer perls (fixes RT120648) (PLICEASE, SIMCOP)
- 0.38 2015-01-18 19:27:41 garu
- typo fixes and improvements to the README (zmughal)
 - travis/coveralls integration (zmughal)
- 0.37 2014-05-15 16:45:33 garu
- removed Carp dependency (GARU)
 - silenced some clang warnings (JACQUESG)
 - added a README (GARU)
- 0.36 2013-12-07 17:36:04 garu
- fixed compilation issue on AIX and C89 (GAAS)
- 0.35 2013-09-05 13:26:54 garu
- SV's can be NULL (shit happens) (fixes RT86217) (HMBRAND)
 - making tests compatible with older versions of Test::More (GARU)
- 0.34 2012-12-09 14:46:09 garu
- making some tests optional (fixes RT81774) (GARU)

- modernizing synopsis (GARU)

0.33 2012-11-24 11:37:22 garu

- fix typo in croak message (Salvatore Bonaccorso)

0.32 2012-11-22 12:14:07 garu

- Stop skipping

SvROK handling for all magical scalars. This fixes

RT issues 67105, 79730 and 80201 (FLORA).

- making the Changes file compliant to the CPAN::Changes spec (GARU).

- Fixing tests when Scalar::Util::weaken is not available. As a result, tests should now pass even in odd OpenBSD versions (GARU).

- removed dubious documentation on the optional parameter until it is 'fixed'. Right now it just increases the refcount when it's 0, and clones otherwise (which isn't exactly what it says). This fixes RT issue 57773 (GARU).

- updated remark on Storable's dclone() to address RT issue 50174 (GARU)

- updated Makefile.PL to include test dependencies (GARU)

0.31 2009-01-20 04:54:37 ray

- Made changes for build failure on Solaris, apparently compiler warnings from the last patch are errors in Solaris.

- Also, brought Changes file up to date.

0.30 2008-12-14 03:33:14 ray

- Updating log: Applied patches from RT # 40957 and #41551.

0.29 2008-12-14 03:32:41

ray

- Updating log: Applied patches supplied by Andreas Koenig, see RT #34317.

0.28 2008-12-14 03:31:33 ray

- Updating log: Made a change in CLONE_KEY to the way Clone stores refs in the ref hash.

- Perl no longer uses the SvANY part of the SV struct in the same way which means the old way of storing the hash key is no longer unique.

Thanks to Slaven Rezic for the patch.

0.27 2008-12-14 03:30:40 ray

- Updating Log: Latest patch from Ruslan Zakirov. Patched another memory leak.

0.26 2007-10-15 04:52:42 ray

- Made a change in CLONE_KEY to the way Clone stores refs in the ref hash.

- Perl no longer uses the SvANY part of the SV struct in the same way which means the old way of storing the hash key is no longer unique.

Thanks to Slaven Rezic for the patch.

- 0.25 2007-07-25 03:41:04 ray
- Latest patch from Ruslan Zakirov. Patched another memory leak.
- 0.24 2007-07-25 03:33:57 ray
- Bug fix for 5.9.*, for some reason the 'visible' logic is no longer working. I #if 'ed it out until I figure out what is going on.
- Also removed an old redundant CLONE_STORE, could have been the cause of some memory leaks.
- 0.23 2007-04-20 05:40:27 ray
- Applied patch so clone will continue to work with newer perls.
- Also fixed test to work with older perls.
- 0.22 2006-10-08 05:35:19 ray
- D'oh! The 0.21 tardist that I just uploaded to CPAN contained the 0.20 Clone.xs file. This release is just in case any of the 0.21 releases get mirrored.
- 0.21 2006-10-08 04:02:56 ray
- Clone was segfaulting due to a null SV object in a magical reference (a PERL_MAGIC_utf8).
- 21859: Clone segfault (isolated example)
- 0.20 2006-03-08 17:15:23 ray
- Commented out VERSION causes errors with DynaLoader in perl 5.6.1 (and probably all earlier versions. It was removed.
- 0.19 2006-03-06 07:22:32 ray
- added a test and fix for tainted variables.
- use a static VERSION in Clone.pm.
- 0.18 2005-05-23 15:34:31 ray
- moved declaration to top of function, M\$ (and other) C compilers choke.
- 0.17 2005-05-05 22:26:01 ray
- Changed PERL_MAGIC_backref to '<' for compatibility with 5.6
- 0.16 2005-04-20 15:49:35 ray
- Bug fix for id 11997, "Clone dies horribly when Scalar::Util::weaken is around" see <http://rt.cpan.org/Ticket/Display.html?id=11997> for details.
- 0.15.2.1 2005-05-05 21:55:30 ray
- changed PERL_MAGIC_backref to '<' for backward compatibility with 5.6
- 0.15 2003-09-07 22:02:35 ray

- VERSION 0.15

0.13.2.3 2003-09-07 21:51:03 ray

- added support for unicode hash keys. This is only really a bug in 5.8.0 and the test in t/03scalar supports this.

0.14 2003-09-07 05:48:10 ray

- VERSION 0.14

0.13.2.2 2003-09-07 05:45:52 ray

- bug fix: refs to a qr (regexp) expression was causing a segfault.

0.13.2.1 2003-09-06 20:18:37 ray

- Bug fix on cloning references, only set ROK in clone if it's set in ref.

0.13 2002-02-03 02:12:29 ray

- VERSION 0.13

0.11.2.1

2002-02-03 02:10:30 ray

- removed dependency on Storable for tests.

0.12 2001-09-30 20:35:27 ray

- Version 0.12 release.

0.11 2001-07-29 19:30:27 ray

- VERSION 0.11

0.10.2.3 2001-07-28 21:53:03 ray

- fixed memory leaks on un-blessed references.

0.10.2.2 2001-07-28 21:52:41 ray

- added test cases for circular reference bugs and memory leaks.

0.10.2.1 2001-07-28 21:52:15 ray

- fixed circular reference bugs.

0.10 2001-04-29 21:48:45 ray

- VERSION 0.10

0.09.2.3 2001-03-11 00:54:41 ray

- change call to rv_clone in clone to sv_clone; this allows any scalar to be cloned.

0.09.2.2 2001-03-11 00:50:01 ray

- version 0.09.3: cleaned up code, consolidated MAGIC.

0.09.2.1 2001-03-05 16:01:52 ray

- added support for double-types.

0.09 2000-08-21 23:05:55 ray

- added support for code refs

0.08 2000-08-11 17:08:24 ray

- Release 0.08.

0.07 2000-08-01 00:31:24 ray

- release 0.07.

0.06.2.3 2000-07-28 20:40:25 ray

- added

support for circular references

0.06.2.2 2000-07-28 19:04:14 ray

- first pass at circular references.

0.06.2.1 2000-07-28 18:54:33 ray

- added support for scalar types.

0.06 Thu May 25 17:48:59 2000 GMT

- initial release to CPAN.

0.01 Tue May 16 08:55:10 2000

- original version; created by h2xs 1.19

Found in path(s):

* /libclone-perl-0-45-orig-tar-gz/Clone-0.45/Changes

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abstract: 'recursively copy Perl datatypes'

author:

- 'Ray Finch <rdf@cpan.org>'

build_requires:

B::COW: '0.004'

ExtUtils::MakeMaker: '0'

Test::More: '0'

configure_requires:

ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.44, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Clone
no_index:
 directory:
 - t
 - inc
resources:
 bugtracker: https://github.com/garu/Clone/issues
 license: http://dev.perl.org/licenses/
 repository: http://github.com/garu/Clone
 version: '0.45'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

* /libclone-perl-0-45-orig-tar-gz/Clone-0.45/META.yml

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* /libclone-perl-0-45-orig-tar-gz/Clone-0.45/t/dclone.t

* /libclone-perl-0-45-orig-tar-gz/Clone-0.45/t/tied.pl

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=head1 NAME

Clone - recursively copy Perl datatypes

=for html

=head1 SYNOPSIS

```
use Clone 'clone';
```

```
my $data = {  
  set => [ 1 .. 50 ],  
  foo => {
```

```

    answer => 42,
    object => SomeObject->new,
  },
};

my $cloned_data = clone($data);

$cloned_data->{foo}{answer} = 1;
print $cloned_data->{foo}{answer}; # '1'
print $data->{foo}{answer};      # '42'

```

You can also add it to your class:

```

package Foo;
use parent 'Clone';
sub new { bless {}, shift }

```

```

package
main;

```

```

my $obj = Foo->new;
my $copy = $obj->clone;

```

=head1 DESCRIPTION

This module provides a C<clone()> method which makes recursive copies of nested hash, array, scalar and reference types, including tied variables and objects.

C<clone()> takes a scalar argument and duplicates it. To duplicate lists, arrays or hashes, pass them in by reference, e.g.

```

my $copy = clone (\@array);

```

or

```

my %copy = %{ clone (\%hash) };

```

=head1 SEE ALSO

L<Storable>'s C<dclone()> is a flexible solution for cloning variables, albeit slower for average-sized data structures. Simple and naive benchmarks show that Clone is faster for data structures with 3 or fewer levels, while C<dclone()> can be faster for structures 4 or more levels deep.

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=head1 AUTHOR

Ray Finch C<< <rdf@cpan.org> >>

Breno G. de Oliveira

C<< <garu@cpan.org> >> and

Florian Ragwitz C<< <rafl@debian.org> >> perform routine maintenance releases since 2012.

=cut

Found in path(s):

* /libclone-perl-0-45-orig-tar-gz/Clone-0.45/Clone.pm

1.154 kmod 29-1ubuntu1

1.154.1 Available under license :

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Version 2.1, February 1999

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

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Date: Sat, 08 Jul 2000 20:27:21

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```
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```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
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1.158 cracklib 2.9.6-3.4build4

1.158.1 Available under license :

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

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

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Modifications: Added cronjob, configuration file, and man pages.

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This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

EFFECTIVE

OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't
actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,

> it was enough to just get it consistent and documented as to what it was

> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
>

Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license
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Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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Devin

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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

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In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
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yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message
as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

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Nathan Neulinger is the only one who can actually make said change ...
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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use
nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtp020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct

2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status:
RO
Content-Length: 585
Lines: 21

>

> ----- Forwarded message -----

> From: Neulinger, Nathan <nneul@umr.edu>

> Date: Sep 27, 2007 2:58 PM

> Subject: RE: cracklib license

> To: alecm@crypto.dircon.co.uk

>

> Any chance you could write me a self-contained email stating clearly

> that the license is being changed to GPL, so I could include that

> email

> in the repository and clean up the repository/tarballs? I have all the

> original discussion, but something succinct and self contained

> would be

> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected

in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

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Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan

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Re: [Cracklib-devel]

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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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From

alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umd.edu ([131.151.0.192]) by UMR-CMAIL1.umd.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umd.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:02 -0500

Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91GxtpR020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

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> From: Neulinger, Nathan <nneul@umr.edu>
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> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.159 xft 2.3.4-1

1.159.1 Available under license :

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1.160 gobject-introspection 1.72.0-1

1.160.1 Available under license :

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Version 2, June 1991

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Preamble

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

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1.162 perl-openssl-defaults 5build2

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written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

intended for inclusion in X11 public releases. */

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1.165 libsm 1.2.3-1build2

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1.166 gsettings-desktop-schemas 42.0-1ubuntu1

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Version 3, 29 June 2007

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1.169 libtext-iconv-perl 1.7-7build3

1.169.1 Available under license :

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

/libtext-iconv-perl-1-7-orig-2-tar-bz2/Text-Iconv-1.7/README: binary file matches

Found in path(s):

* /bin/grep

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Text::Iconv Version 1.6

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Description

This module provides a Perl interface to the iconv() codeset conversion function, as defined by the Single UNIX Specification. For more details see the POD documentation embedded in the file Iconv.pm, which will also be installed as Text::Iconv(3) man page.

Prerequisites

Your system should be compliant with the Single UNIX Specification or at least provide iconv_open(), iconv() and iconv_close() functions compliant with it.

Note that the possible conversions and the quality of the conversions depend on the available iconv conversion tables and algorithms, which are in most cases supplied by the operating system vendor. Some systems also allow you to build your own tables (e.g., HP-UX, Tru64 UNIX, and AIX provide the genxlt(1) command).

It is also possible to use a separate iconv library such as GNU libiconv package, just make sure that the desired library is found (see <<http://www.gnu.org/directory/localization/libiconv.html>>).

Building the module

Since the Single UNIX Specification only specifies an interface, several issues are left to the implementation to define, namely:

1. The supported codesets
2. The supported conversions
3. The names for the supported codesets

Please check your system documentation for the above points.

The module can be built using this sequence of commands:

```
perl Makefile.PL
make
make test
```

On some systems, the iconv functions are in libc; on others (and when you want to use a separate iconv library, such as GNU libiconv), you have to link with -liconv. Makefile.PL tries to automatically detect this. However, if your iconv library is in a non-standard path, you might have to help it.

You can specify library and include paths like this:

```
perl Makefile.PL LIBS='-L/path/to/lib' INC='-I/path/to/include'
```

You might also have to do this if you have multiple iconv implementations installed and want to use a specific one.

The purpose of the test scripts (run by "make test") is to check if an iconv library can be found, and if the iconv functions can be called. It is neither intended to find out which conversions are supported, nor to test the quality of the conversions provided by your iconv library. However, since the iconv functions can only be tested by calling them, which in turn requires the specification of codesets to be converted. The test scripts try some conversions which seem to be widely supported. Conversions not supported by your iconv implementation are skipped, but for the purpose outlined above this is no problem, as it shows that the iconv functions are working. There is no standard way to find out which conversions are supported by an implementation.

This is also the reason why Text::Iconv can't provide platform-independent support for codeset identifiers (even if it would be nice to have).

Installation

make install

Feedback

Text::Iconv was tested on various platforms and with different iconv implementations.

If you built Text::Iconv on a platform where you needed to specify additional libraries, or where none of the codeset identifiers in the test scripts are supported, please drop me a note.

Thanks

Thanks go to all those who reported bugs and suggested features.

Michael Piotrowski <mxp@dynalabs.de>

Found in path(s):

* /libtext-iconv-perl-1-7-orig-2-tar-bz2/Text-Iconv-1.7/README

1.170 pygobject 3.42.1-0ubuntu1

1.170.1 Available under license :

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1.171 d-conf 0.40.0-3

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1.172 libpciaccess 0.16-3

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1.173 libxv 1.0.11-1build2

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1.174 libxi 1.1.4-3

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1.175 libxrender 0.9.10-1build4

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1.176 libu2f-host 1.1.10-3build2

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

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

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Version 3, 29 June 2007

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The

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

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section 10

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1.177 libfontenc 1.1.4-1build3

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1.178 libepoxy 1.5.10-1

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1.179 fribidi 1.0.8-2ubuntu3.1

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Version 2.1, February 1999

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard

Original author of libsensors, sensors-detect, sensors and isadump.

* Merlin Hughes

Original author of sensord.

* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in
libsensors and sensors.

* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

1.181 libvorbis 1.3.7-1build2

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1.182 libxi 1.8-1build1

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1.183 libxcomposite 0.4.5-1build2

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1.184 libxtst 1.2.3-1build4

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1.185 opus 1.3.1-0.1build2

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1.187 libxxf86vm 1.1.4-1build3

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1.188 libxshmfence 1.3-1build4

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1.189 libglvnd 1.4.0-1

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1.190 Imdb 0.9.24-1build2

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1.191 libxxfdga 1.1.5-0ubuntu3

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1.192 vulkan-loader 1.3.204.1-2

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1.193 libthai 0.1.29-1build1

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1.194 xfonts-utils 7.7+6build2

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Packaged by: David Nusinow <dnusinow@debian.org> and others.

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1.200 libhttp-daemon-perl 6.13-1ubuntu0.1

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1.203 at-spi2-core 2.44.0-3

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1.204 libxkbfile 1.1.0-1build3

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1.205 libxml-parser-perl 2.46-3build1

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```
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*/
```

Found in path(s):

* /libxml-parser-perl-2-46-orig-1-tar-gz/XML-Parser-2.46/Expat/encoding.h

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abstract: 'A perl module for parsing XML documents'

author:

- 'Clark Cooper (coopercc@netheaven.com)'

build_requires:

ExtUtils::MakeMaker: '0'

Test::More: '0'

warnings: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: XML-Parser

no_index:

directory:

- t

- inc

requires:

LWP::UserAgent: '0'

perl: '5.00405'

resources:

bugtracker: <https://github.com/toddr/XML-Parser/issues>

repository: <http://github.com/toddr/XML-Parser>

version: '2.46'

x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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LWPEExternEnt.pl

```

#
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package XML::Parser;

use URI;
use URI::file;
use LWP::UserAgent;

##
## Note that this external entity handler reads the entire entity into
## memory, so it will choke on huge ones. It would be really nice if
## LWP::UserAgent optionally returned us an IO::Handle.
##

sub lwp_ext_ent_handler {
    my ($xp, $base, $sys) = @_; # We don't use public id

    my $uri;

    if (defined $base) {
        # Base may have been set by parsefile, which is agnostic about
        # whether its a file or URI.
        my $base_uri = new URI($base);
        unless (defined $base_uri->scheme) {
            $base_uri = URI->new_abs($base_uri, URI::file->cwd);
        }

        $uri = URI->new_abs($sys, $base_uri);
    }
    else {
        $uri = new URI($sys);
        unless (defined $uri->scheme)
        {
            $uri = URI->new_abs($uri, URI::file->cwd);
        }
    }

    my $ua = $xp->{_lwpagent};
    unless (defined $ua) {
        $ua = $xp->{_lwpagent} = new LWP::UserAgent();
        $ua->env_proxy();
    }
}

```

```

my $req = new HTTP::Request('GET', $uri);

my $res = $ua->request($req);
if ($res->is_error) {
    $xp->{ErrorMessage} .= "\n" . $res->status_line . " $uri";
    return undef;
}

$xp->{_BaseStack} ||= [];
push(@{$xp->{_BaseStack}}, $base);

$xp->base($uri);

return $res->content;
} # End lwp_ext_ent_handler

sub lwp_ext_ent_cleanup {
    my ($xp) = @_;

    $xp->base(pop(@{$xp->{_BaseStack}}));
} # End lwp_ext_ent_cleanup

1;

```

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```

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** Expat.xs
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*/

```

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* /libxml-parser-perl-2-46-orig-1-tar-gz/XML-Parser-2.46/samples/canonical
* /libxml-parser-perl-2-46-orig-1-tar-gz/XML-Parser-2.46/Parser.pm

1.206 dbus-python 1.2.18-3build1

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written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

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/* lib/font/fontfile/gunzip.c

written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

intended for inclusion in X11 public releases. */

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

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

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

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

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

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- 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.
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1.213 xorg 7.7+23ubuntu2

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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1.214 atk 2.36.0-3build1

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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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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1.215 libxfixes 6.0.0-1

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1.216 colord 1.4.6-1

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1.217 gtk-d 3.10.0-1ubuntu1

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1.218 ldc 1.28.0-1ubuntu1

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1.219 llvm-toolchain 11.1.0-6

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1.220 llvm 11.1.0-6

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py

; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

```
define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:      // %bb.0:
; CHECK-NEXT:  ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:  mov v0.d[1], v0.d[0]
; CHECK-NEXT:  ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
```

```
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.
```

```
define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
    %L34 = load i8, i8* %0
    %Cmp56 = icmp sgt i8 undef, %L34
    br label %CF246

CF246:                                ; preds = %CF246, %BB
    %S1163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248

CF248:                                ; preds = %CF248, %CF246
    store i8 %S1163, i8* %0
    br label %CF248
}
```

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*/
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestSelect:
; CHECK:      # %bb.0:
; CHECK-NEXT:  pushq %rbx
; CHECK-NEXT:  .cfi_def_cfa_offset 16
; CHECK-NEXT:  subq $32, %rsp
; CHECK-NEXT:  .cfi_def_cfa_offset 48
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movaps %xmm1, {[[-0-9]+]}(%r{[sb]})p) # 16-byte Spill
; CHECK-NEXT:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  callq __gttf2
; CHECK-NEXT:  movl %eax, %ebx
; CHECK-NEXT:  movaps (%rsp), %xmm0 # 16-byte Reload
; CHECK-NEXT:  movaps {[[-0-9]+]}(%r{[sb]})p),
;               %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  jg .LBB0_2
; CHECK-NEXT:  # %bb.1:
; CHECK-NEXT:  xorps %xmm0, %xmm0

```

```

; CHECK-NEXT: .LBB0_2:
; CHECK-NEXT: addq $32, %rsp
; CHECK-NEXT: .cfi_def_cfa_offset 16
; CHECK-NEXT: popq %rbx
; CHECK-NEXT: .cfi_def_cfa_offset 8
; CHECK-NEXT: retq
%cmp = fcmp ogt fp128 %a, %b
%sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
ret fp128 %res
}

```

```

define fp128 @TestFabs(fp128 %a) {
; CHECK-LABEL: TestFabs:
; CHECK:      # %bb.0:
; CHECK-NEXT: andps {{.*}}(%rip), %xmm0
; CHECK-NEXT: retq
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
}

```

```

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestCopysign:
; CHECK:      # %bb.0:
; CHECK-NEXT: andps {{.*}}(%rip), %xmm1
; CHECK-NEXT: andps {{.*}}(%rip), %xmm0
; CHECK-NEXT: orps %xmm1, %xmm0
; CHECK-NEXT: retq
%res = call
fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
}

```

```

define fp128 @TestFneg(fp128 %a) {
; CHECK-LABEL: TestFneg:
; CHECK:      # %bb.0:
; CHECK-NEXT: pushq %rax
; CHECK-NEXT: .cfi_def_cfa_offset 16
; CHECK-NEXT: movaps %xmm0, %xmm1
; CHECK-NEXT: callq __multf3
; CHECK-NEXT: xorps {{.*}}(%rip), %xmm0
; CHECK-NEXT: popq %rax
; CHECK-NEXT: .cfi_def_cfa_offset 8
; CHECK-NEXT: retq
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000008000000000000000, %mul
ret fp128 %res
}

```

```
; RUN: opt %s -inline -S | FileCheck %s
```

```
define internal void @innerSmall() "min-legal-vector-width"="128" {  
  ret void  
}
```

```
define internal void @innerLarge() "min-legal-vector-width"="512" {  
  ret void  
}
```

```
define internal void @innerNoAttribute() {  
  ret void  
}
```

```
; We should not add an attribute during inlining. No attribute means unknown.  
; Inlining doesn't change the fact that we don't know anything about this  
; function.
```

```
define void @outerNoAttribute() {  
  call void @innerLarge()  
  ret void  
}
```

```
define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {  
  call void @innerLarge()  
  ret void  
}
```

```
define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {  
  call void @innerSmall()  
  ret void  
}
```

```
; We should remove the attribute after inlining since the callee's  
; vector width requirements are unknown.
```

```
define void @outerAttribute() "min-legal-vector-width"="128" {  
  call void @innerNoAttribute()  
  ret void  
}
```

```
; CHECK: define void @outerNoAttribute() {  
; CHECK:  
  define void @outerConflictingAttributeSmall() #0  
; CHECK: define void @outerConflictingAttributeLarge() #0  
; CHECK: define void @outerAttribute() {  
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
```

```
-----  
clang-tidy CERT Files  
-----
```

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; RUN: llc -march=hexagon < %s

; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types

; cause LSR to assume type "void" for the memory type. This would then

; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }

%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {

entry:

br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry

br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph

%lsr.iv = phi %struct.0* [%cgep22, %exit.2], [undef, %while.body.lr.ph]

switch i32 undef, label %exit [

i32 1, label %sw.bb.i

i32 2, label %sw.bb3.i

]

sw.bb.i: ; preds = %while.body

unreachable

```
sw.bb3.i:                                ; preds = %while.body
unreachable
```

```
exit:                                    ; preds = %while.body
switch i32 undef, label %exit.2 [
  i32 1, label %sw.bb.i17
  i32 2, label %sw.bb3.i20
]
```

```
sw.bb.i17:                              ; preds = %exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable
```

```
sw.bb3.i20:                             ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable
```

```
exit.2:                                 ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body
```

```
while.end:                              ; preds = %entry
ret void
}
```

```
attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
```

```
=====
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=====
```

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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

```
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {  
; CHECK-LABEL: test_sitofp_fixed:
```

```
    ; First, extend each i32 to i64  
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0  
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0  
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0  
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0  
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0  
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0  
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0  
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
```

```
    ; Next, convert each to double.  
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]  
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]  
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]  
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]  
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]  
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]  
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]  
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
```

```
; CHECK: ret  
%flt = sitofp <16 x i32>  
%in to <16 x double>  
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,  
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,  
double 64.0>  
ret <16 x double> %res  
}
```

; This one is small enough to satisfy isSimple, but still illegally large.

```
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {  
; CHECK-LABEL: test_sitofp_fixed_shortish:
```

```
    ; CHECK-DAG: scvtf.2d v0, v0  
; CHECK-DAG: scvtf.2d v1, v1
```

```
; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

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```

```
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 ; RUN: opt -consthoist -S -o - %s | FileCheck %s
 target datalayout = "e-m:e-p:32:32-i64:64-v128:64:128-a:0:32-n32-S64"
 target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
 ; Also check that an constant used as value to be stored rather than
 ; pointer in a store instruction is hoisted.
 ; CHECK: foo_i8
 ; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
 ; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
 ; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
 ; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
 ; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
 ; CHECK-NEXT: %1 = load volatile i8, i8* %0
 ; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
 ; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
 ; CHECK-NEXT: %3 = load volatile i8, i8* %2
 ; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
 ; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
 ; CHECK-NEXT: %5 = load volatile i8, i8*
 %4
 ; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
 ; CHECK-NEXT: %7 = load volatile i8, i8* %6
 ; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7

```

; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

```

```
@goo = global i8* undef
```

```

define void @foo_i8() {
entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile
i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

```

```

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32
%[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62

```

```

; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774
to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]],
12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4

```



```
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}
```

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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes

; RUN: opt -S -argpromotion < %s | FileCheck %s

; RUN: opt -S -passes=argpromotion < %s | FileCheck %s

; Test that we only promote arguments when the caller/callee have compatible

; function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote

define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {

; CHECK-LABEL: define {{[^\n]+\n}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512

; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])

; CHECK-NEXT: bb:

; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]

; CHECK-NEXT: ret void

;

bb:

%tmp = load <8 x i64>, <8 x i64>* %arg1

store <8 x i64> %tmp, <8 x i64>* %arg

ret void

}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0

{

; CHECK-LABEL: define {{[^\n]+\n}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512

; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])


```

; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64
32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{^@+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{^@+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
;
CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*

```

```

; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define {[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca
<8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32

```

```

; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret
void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{^[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{^[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8*
align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:

```

```

%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

; This should not promote

```

define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^\@]+\}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

```

```

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
; CHECK-LABEL: define {{[^\@]+\}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)

```

```

i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #2 {
; CHECK-LABEL: define {{{^@}+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
;
CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{{^@}+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8
x i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

```

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
; CHECK-LABEL: define {{[^\@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT:
    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

```

```

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
; CHECK-LABEL: define {{[^\@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:  call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:  [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>*
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:  store
    <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

```

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #4 {

```

```

; CHECK-LABEL: define {{{^@}+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT:   store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:   ret void
;
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64>
  %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
; CHECK-LABEL: define {{{^@}+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT:   [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:   [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:   [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:   call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:   [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:   call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>*
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:   store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:   ret void
;
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>,
  align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32*
%Y) #2 {
; CHECK-LABEL: define
{{{^@}+}}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT:   [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]

```

```

; CHECK-NEXT:  ret i32 [[C]]
;
%A = load i32, i32* %X
%B = load i32, i32* %Y
%C = add i32 %A, %B
ret i32 %C
}

define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
; CHECK-LABEL: define {{{^@}+}}@scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
;
CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT:  [[A:%.*]] = alloca i32
; CHECK-NEXT:  store i32 1, i32* [[A]]
; CHECK-NEXT:  [[A_VAL:%.*]] = load i32, i32* [[A]]
; CHECK-NEXT:  [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT:  [[C:%.*]] = call i32
@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:  ret i32 [[C]]
;
%A = alloca i32
store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
ret i32 %C
}

```

; If the arguments are scalar, its ok to promote.

```

define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32*
%Y) #2 {
; CHECK-LABEL: define
{{{^@}+}}@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT:  [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT:  ret
i32 [[C]]
;
%A = load i32, i32* %X
%B = load i32, i32* %Y
%C = add i32 %A, %B
ret i32 %C
}

```

```

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
; CHECK-LABEL: define {{{^@}+}}@scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT:  [[A:%.*]] = alloca i32
; CHECK-NEXT:  store i32 1, i32* [[A]]
; CHECK-NEXT:  [[A_VAL:%.*]] = load i32, i32* [[A]]

```



```
; CHECK-NEXT: [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT: [[C:%.*]] = call i32
@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT: ret i32 [[C]]
;
%A = alloca i32
store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %A, i32* %B)
ret i32 %C
}
```

```
; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5
```

```
attributes #0 = { inlinehint norecurse nounwind
  uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
"prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }
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```

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; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s
--check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi |
FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for
vpmaddwd+vpadd
```

```
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-
prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --
check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --
check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-
prefixes=CHECK,CHECK-VBMI
;
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --
check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --
check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-
prefixes=CHECK,CHECK-VBMI
```

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vpadd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:  vpadd 32(%rsi), %ymm0, %ymm0
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm1,
32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}
```

```
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:  vpadd 32(%rsi), %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
```



```
%4 = zext <64 x i8> %2 to <64 x i32>  
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,  
i32 1,  
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,  
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32  
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>  
%6 = add nuw nsw <64 x i32> %5, %4  
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32  
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32  
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,  
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>  
%8 = trunc <64 x i32> %7 to <64 x i8>  
store <64 x i8> %8, <64 x i8>* undef, align 4  
ret void  
}
```

```
define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa64(%rdi), %zmm0
```



```

; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

```

```

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```

```

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr)
"min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper

```

```

; CHECK-NEXT:    retq
%x = load <64 x i8>, <64 x i8>* %xptra
%y = load <64 x i8>, <64 x i8>* %yptra
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```

```

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {

```

```

; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT:    movl %edx, %eax
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    xorl %ecx, %ecx
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:    .LBB8_1: # %vector.body
; CHECK-NEXT:
    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm3
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm4
; CHECK-NEXT:    vpmovsxbw 16(%rsi,%rcx), %ymm5
; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT:    vpadd %ymm2, %ymm3, %ymm2
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm3
; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT:    vpadd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:    addq $32, %rcx
; CHECK-NEXT:    cmpq %rcx, %rax
; CHECK-NEXT:    jne .LBB8_1
; CHECK-NEXT:    # %bb.2: # %middle.block
; CHECK-NEXT:    vpadd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:    vpadd %ymm0, %ymm2, %ymm0
; CHECK-NEXT:    vpadd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpsltd {*.#+} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpsltd {*.#+} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0,
    %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq

```

```
%3 = zext i32 %2 to i64
br label %vector.body
```

```
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body
```

```
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22,
i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
```

```

undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

```

```

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-
width"="512" {

```

```

; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT:  movl %edx, %eax
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  xorl %ecx, %ecx
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB9_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT:  vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT:  vpaddq %zmm1, %zmm2, %zmm1
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB9_1
; CHECK-NEXT:
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpaddq %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  vpaddq %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddq %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddq %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddq %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body

```

```

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*

```

```

%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

```

middle.block:

```

%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

```

@a = global [1024 x i8] zeroinitializer, align 16

@b = global [1024 x i8] zeroinitializer, align 16

```

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:

```

```

; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0,
%xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB10_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-NEXT: vpaddq %ymm1, %ymm2, %ymm1
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB10_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddq %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddq %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsltd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddq %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsltd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpaddq %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

```

entry:

```
br label %vector.body
```

vector.body:

```

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi
= phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8*>
%wide.load = load <16 x i8>, <16 x i8*> %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8*>
%wide.load1 = load <16 x i8>, <16 x i8*> %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

```

middle.block:

```
%rdx.shuf = shufflevector
<16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
```

```
define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB11_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT:  vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT:  vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  addq $4, %rax
; CHECK-NEXT:  jne .LBB11_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd
  {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
}
```

entry:

br label %vector.body

vector.body:

```
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body
```

middle.block:

```
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
```

```
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
```



```

; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
;
CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT:
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)

```

```

; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:
    vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16
x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```
}
```

```
define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {  
; CHECK-LABEL: ubto16f32_512:  
; CHECK:      # %bb.0:  
; CHECK-NEXT: vpmovw2m %ymm0, %k0  
; CHECK-NEXT: vpmovm2d %k0, %zmm0  
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0  
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0  
; CHECK-NEXT: vmovaps %zmm0, (%rdi)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%mask = icmp slt <16 x i16> %a, zeroinitializer  
%1 = uitofp <16 x i1> %mask to <16 x float>  
store <16 x float> %1, <16 x float>* %res  
ret void  
}
```

```
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {  
; CHECK-LABEL: ubto16f64_256:  
; CHECK:      # %bb.0:  
; CHECK-NEXT: vpmovw2m %ymm0, %k0  
; CHECK-NEXT: kshiftrw $8, %k0, %k1  
; CHECK-NEXT: vpmovm2d %k1, %ymm0  
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0  
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1  
; CHECK-NEXT: vextracti128 $1, %ymm0,  
%xmm0  
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0  
; CHECK-NEXT: vpmovm2d %k0, %ymm2  
; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2  
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3  
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2  
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2  
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)  
; CHECK-NEXT: vmovaps %ymm3, (%rdi)  
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)  
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%mask = icmp slt <16 x i16> %a, zeroinitializer  
%1 = uitofp <16 x i1> %mask to <16 x double>  
store <16 x double> %1, <16 x double>* %res  
ret void  
}
```

```
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {  
; CHECK-LABEL: ubto16f64_512:
```

```

; CHECK:      # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:  vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:  vcvtdq2pd
               %ymm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
               %mask = icmp slt <16 x i16> %a, zeroinitializer
               %1 = uitofp <16 x i1> %mask to <16 x double>
               store <16 x double> %1, <16 x double>* %res
               ret void
}

```

```

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {

```

```

; CHECK-LABEL: test_16f32toub_256:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k0
; CHECK-NEXT:  vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k1
; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
               %a = load <16 x float>, <16 x float>* %ptr
               %mask = fptoui <16 x float> %a to <16 x i1>
               %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
               ret <16 x i16> %select
}

```

```

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {

```

```

; CHECK-LABEL: test_16f32toub_512:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpslld $31, %zmm1, %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
               %a = load <16 x float>, <16 x float>* %ptr
               %mask = fptoui <16 x float> %a to <16 x i1>

```

```

%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k0
; CHECK-NEXT:  vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k1
; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
; CHECK-NEXT:  vmovdqu16
               %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
               %a = load <16 x float>, <16 x float>* %ptr
               %mask = fptosi <16 x float> %a to <16 x i1>
               %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
               ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
               %a = load <16 x float>, <16 x float>* %ptr
               %mask = fptosi <16 x float> %a to <16 x i1>
               %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
               ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: mul256:
; CHECK-AVX512:      # %bb.0:
; CHECK-AVX512-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-AVX512-NEXT:
               vmovdqa 32(%rdi), %ymm1
; CHECK-AVX512-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-AVX512-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} %ymm4 =
               ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} %ymm5 =
               ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]

```

```

; CHECK-AVX512-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT: vmovdqa {{.*#+}} ymm5 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm3 =
ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm1 =
ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpand %ymm5,
    %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm3 =
ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm3, %ymm3
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm2 =
ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-AVX512-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-AVX512-NEXT:
    vzeroupper
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: mul256:
; CHECK-VBMI:    # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm4 =
ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm5 =
ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} ymm3 =
ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} ymm1 =
ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}}

```

```

ymm3 = [0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,30,48,50,52,54,56,58,60,62]
; CHECK-VBMI-NEXT:  vpermt2b %ymm4, %ymm3, %ymm1
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} ymm2 =
ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpmullw %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT:  vpermt2b %ymm4, %ymm3, %ymm0
; CHECK-VBMI-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-VBMI-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-VBMI-NEXT:  vzeroupper
; CHECK-VBMI-NEXT:
    retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

```

```

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-AVX512-LABEL: mul512:
; CHECK-AVX512:      # %bb.0:
; CHECK-AVX512-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-AVX512-NEXT:  vmovdqa64 (%rsi), %zmm1
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT:  vmovdqa64
{{.*#+}} zmm3 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,2
55,255,255,255,255,255]
; CHECK-AVX512-NEXT:  vpandq %zmm3, %zmm2, %zmm2
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]

```

```

; CHECK-AVX512-NEXT: vpmullw %zmm1, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vpandq %zmm3, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-AVX512-NEXT: vzeroupper
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: mul512:
; CHECK-VBMI:    # %bb.0:
; CHECK-VBMI-NEXT:
    vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} zmm2 =
zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT: vpmullw %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
;
    CHECK-VBMI-NEXT: vpmullw %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT: vmovdqa64 {{.*#+}} zmm1 =
[0,2,4,6,8,10,12,14,64,66,68,70,72,74,76,78,16,18,20,22,24,26,28,30,80,82,84,86,88,90,92,94,32,34,36,38,40,42,44,
46,96,98,100,102,104,106,108,110,48,50,52,54,56,58,60,62,112,114,116,118,120,122,124,126]
; CHECK-VBMI-NEXT: vperm2b %zmm2, %zmm0, %zmm1
; CHECK-VBMI-NEXT: vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT: vzeroupper
; CHECK-VBMI-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

```

; This threw an assertion at one point.

```
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-
width"="256" {
```

```
; CHECK-LABEL: mload_v4i32:
```

```
; CHECK:    # %bb.0:
```

```
; CHECK-NEXT: vptestnmd %xmm0, %xmm0, %k1
```

```
; CHECK-NEXT: vblendmd (%rdi), %xmm1, %xmm0 {%k1}
```



```

;
CHECK-NEXT:    retq
%mask = icmp eq <4 x i32> %trigger, zeroinitializer
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32>
%dst)
ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i32:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:  vpmovqd %ymm0, %xmm0
; CHECK-NEXT:  vpmovqd %ymm1, %xmm1
; CHECK-NEXT:  vinserti128 $1, %xmm1, %ymm0, %ymm0
; CHECK-NEXT:  vpmovqd %ymm2, %xmm1
; CHECK-NEXT:  vpmovqd %ymm3, %xmm2
; CHECK-NEXT:  vinserti128 $1, %xmm2, %ymm1, %ymm1
; CHECK-NEXT:  retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i32>
ret <16 x i32> %b
}

define
<16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i8:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:  vpmovqb %ymm3, %xmm3
; CHECK-NEXT:  vpmovqb %ymm2, %xmm2
; CHECK-NEXT:  vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
; CHECK-NEXT:  vpmovqb %ymm1, %xmm1
; CHECK-NEXT:  vpmovqb %ymm0, %xmm0
; CHECK-NEXT:  vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT:  vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm2[0]
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i8>
ret <16 x i8> %b

```

```

}

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i8:
; CHECK:      # %bb.0:
; CHECK-NEXT:
    vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovdb %ymm1, %xmm1
; CHECK-NEXT: vpmovdb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
    %a = load <16 x i32>, <16 x i32>* %x
    %b = trunc <16 x i32> %a to <16 x i8>
    ret <16 x i8> %b
}

```

```

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqb %ymm1, %xmm1
; CHECK-NEXT: vpmovqb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
    %a = load <8 x i64>, <8 x i64>* %x
    %b = trunc <8 x i64> %a to <8 x i8>
    ret <8 x i8> %b
}

```

```

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i16:
;
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqw %ymm1, %xmm1
; CHECK-NEXT: vpmovqw %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
    %a = load <8 x i64>, <8 x i64>* %x
    %b = trunc <8 x i64> %a to <8 x i16>
    ret <8 x i16> %b
}

```

```

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vpsrlq $48, 32(%rdi), %ymm1
; CHECK-NEXT:  vpsrlq $48, (%rdi), %ymm2
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
; CHECK-NEXT:  vperm2w %ymm1, %ymm2, %ymm0
; CHECK-NEXT:  retq
%a = load <8 x i64>, <8 x i64>* %x
%b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define
<16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT:  vperm2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT:  retq
%a = load <16 x i32>, <16 x i32>* %x
%b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-AVX512:      # %bb.0:
; CHECK-AVX512-NEXT:  vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:  vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:  vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:  vpermq {{.*#+}} ymm0
= ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:  retq
;
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-VBMI:      # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa {{.*#+}} ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:  vperm2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:  retq
%a = load <32 x i16>, <32 x i16>* %x

```



```

; CHECK-NEXT: vpsshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpmovsxbwq %xmm1, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm2
; CHECK-NEXT: vpsshufd {{.*#+}} xmm3 = xmm2[2,3,0,1]
; CHECK-NEXT: vpmovsxbwq %xmm3, %ymm3
;
CHECK-NEXT: vpmovsxbwq %xmm0, %ymm0
; CHECK-NEXT: vpmovsxbwq %xmm2, %ymm2
; CHECK-NEXT: vmovdqa %ymm2, 64(%rdi)
; CHECK-NEXT: vmovdqa %ymm0, (%rdi)
; CHECK-NEXT: vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = sext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}

```

```

define void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>*
%r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i16_setcc:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqw %xmm1, %xmm0, %k1
; CHECK-NEXT: kshiftrb $4, %k1, %k2
; CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <8
x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i16> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}

```

```

define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>*
%r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i32_setcc:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3

```

```

; CHECK-NEXT: vpcmpeqd %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrb $4, %k1, %k2
; CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <8 x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i32> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}

define
void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r)
"min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i8_setcc:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqb %xmm1, %xmm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i8> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x
i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i16_setcc:
;
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2

```

```

; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, %xmm0
; CHECK-NEXT:
    vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %p
%b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
%f = trunc <16 x i32> %e to <16 x i8>
ret <16 x i8> %f
}

define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256"
{
; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, (%rsi)
;
    CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %p
%b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>

```



```

255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
%f = trunc <16 x i32> %e to <16 x i8>
store <16 x i8> %f, <16 x i8>* %q
ret void
}

```

```

define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_argument_return:
; CHECK:      # %bb.0:
; CHECK-NEXT:  retq
ret <64 x i1> %x
}

```

```

define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_shuffle:
; CHECK:
    # %bb.0: # %entry
; CHECK-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm0
; CHECK-NEXT:  vptestnmb %ymm1, %ymm1, %k0
; CHECK-NEXT:  kshiftrd $1, %k0, %k1
; CHECK-NEXT:  movq $-3, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftlq $63, %k0, %k2
; CHECK-NEXT:  kshiftrq $62, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-5, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $3, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $61, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-9, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $2, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $60, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-17, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:

```

```

kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $5, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $59, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-33, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $4, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $58, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-65, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $7, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $57, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-129, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $6, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $56, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-257, %rax # imm = 0xFEFF
;
CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $9, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $55, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-513, %rax # imm = 0xFDFD
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $8, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $54, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $11, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $53, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1

```

```

; CHECK-NEXT:  movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $10, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq
$52, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $13, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $51, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-8193, %rax # imm = 0xDFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $12, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $50, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-16385, %rax # imm = 0xBFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $15, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $49, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-32769, %rax # imm = 0xFFFF7FFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1,
%k1
; CHECK-NEXT:  kshiftrd $14, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $48, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-65537, %rax # imm = 0xFFFFEFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $17, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $47, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-131073, %rax # imm = 0xFFFFDFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $16, %k0, %k2

```

```

; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $46, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-262145, %rax # imm = 0xFFFFBFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $19, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $45, %k2, %k2
; CHECK-NEXT: korq %k2, %k1,
%k1
; CHECK-NEXT: movq $-524289, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $18, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $44, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-1048577, %rax # imm = 0xFFEFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $21, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $43, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-2097153, %rax # imm = 0xFFDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $20, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $42, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-4194305, %rax # imm = 0xFFBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd
$23, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $41, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-8388609, %rax # imm = 0xFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $22, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $40, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-16777217, %rax # imm = 0xFEFFFFFFF

```

```

; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $25, %k0, %k2
; CHECK-NEXT:    kshiftrlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $39, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-33554433, %rax # imm = 0xFDFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $24, %k0, %k2
; CHECK-NEXT:    kshiftrlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $38, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:
    movq $-67108865, %rax # imm = 0xFBFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $27, %k0, %k2
; CHECK-NEXT:    kshiftrlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $37, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-134217729, %rax # imm = 0xF7FFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $26, %k0, %k2
; CHECK-NEXT:    kshiftrlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $36, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-268435457, %rax # imm = 0xEFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $29, %k0, %k2
; CHECK-NEXT:    kshiftrlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $35, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-536870913, %rax # imm = 0xDFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $28,
%k0, %k2
; CHECK-NEXT:    kshiftrlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $34, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1073741825, %rax # imm = 0xBFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $31, %k0, %k2
; CHECK-NEXT:    kshiftrlq $63, %k2, %k2

```

```

; CHECK-NEXT: kshiftrq $33, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movabsq $-2147483649, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k2
; CHECK-NEXT: vptestnmb %ymm0, %ymm0, %k1
; CHECK-NEXT: kshiftrd $30, %k0, %k0
; CHECK-NEXT: kshiftrlq $63, %k0, %k0
; CHECK-NEXT: kshiftrq $32, %k0, %k0
; CHECK-NEXT: korq %k0, %k2, %k0
; CHECK-NEXT: movabsq $-4294967297, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $1, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq
$31, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-8589934593, %rax # imm = 0xFFFFFFFFDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrlq $63, %k1, %k2
; CHECK-NEXT: kshiftrq $30, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-17179869185, %rax # imm = 0xFFFFFFFFBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $3, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $29, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-34359738369, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $2, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $28, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-68719476737, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax,
%k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $5, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $27, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-137438953473, %rax # imm = 0xFFFFFFFFDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2

```

```

; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $4, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $26, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-274877906945, %rax # imm = 0xFFFFFFFFBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $7, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $25, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-549755813889, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $6, %k1, %k2
; CHECK-NEXT: kshiftrlq
$63, %k2, %k2
; CHECK-NEXT: kshiftrq $24, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1099511627777, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $9, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $23, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2199023255553, %rax # imm = 0xFFFFFDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $8, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $22, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-4398046511105, %rax # imm = 0xFFFFFBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $11, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $21, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT:
movabsq $-8796093022209, %rax # imm = 0xFFFFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $10, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $20, %k2, %k2

```

```

; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-17592186044417, %rax # imm = 0xFFFFFEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $13, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $19, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-35184372088833, %rax # imm = 0xFFFFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $12, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $18, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-70368744177665, %rax # imm = 0xFFFFBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
;
CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $15, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $17, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-140737488355329, %rax # imm = 0xFFFFF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $14, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $16, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-281474976710657, %rax # imm = 0xFFFFEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $17, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $15, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-562949953421313, %rax # imm = 0xFFFFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $16, %k1, %k2
; CHECK-NEXT:
kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $14, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1125899906842625, %rax # imm = 0xFFFFBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0

```



```

; CHECK-NEXT: kshiftrd $19, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $13, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2251799813685249, %rax # imm = 0xFFF7FFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $18, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $12, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-4503599627370497, %rax # imm = 0xFFEFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $21, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $11, %k2, %k2
; CHECK-NEXT: korq %k2,
%k0, %k0
; CHECK-NEXT: movabsq $-9007199254740993, %rax # imm = 0xFFDFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $20, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $10, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-18014398509481985, %rax # imm = 0xFFBFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $23, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $9, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-36028797018963969, %rax # imm = 0xFF7FFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $22, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $8, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFF
; CHECK-NEXT:
kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $25, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $7, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0

```

```

; CHECK-NEXT: movabsq $-144115188075855873, %rax # imm = 0xFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $24, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $6, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-288230376151711745, %rax # imm = 0xFBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $27, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $5, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-576460752303423489, %rax # imm = 0xF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd
$26, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $4, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1152921504606846977, %rax # imm = 0xEEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $29, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $3, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2305843009213693953, %rax # imm = 0xDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $28, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $2, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-4611686018427387905, %rax # imm = 0xBF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $31, %k1, %k2
; CHECK-NEXT: kshiftrlq $62, %k2, %k2
; CHECK-NEXT: korq %k2,
%k0, %k0
; CHECK-NEXT: kshiftrd $30, %k1, %k1
; CHECK-NEXT: kshiftrlq $1, %k0, %k0
; CHECK-NEXT: kshiftrq $1, %k0, %k0
; CHECK-NEXT: kshiftrlq $63, %k1, %k1
; CHECK-NEXT: korq %k1, %k0, %k1

```

```

; CHECK-NEXT: vmovdqu8 %ymm1, (%rsi) {%k1}
; CHECK-NEXT: kshiftrq $32, %k1, %k1
; CHECK-NEXT: vmovdqu8 %ymm0, 32(%rsi) {%k1}
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
%a = load <64 x i8>, <64 x i8>* %x
%b = icmp eq <64 x i8> %a, zeroinitializer
%shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 3, i32 2, i32 5, i32 4, i32 7, i32
6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32
22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39,
i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32
55, i32 54, i32 57, i32 56, i32
59, i32 58, i32 61, i32 60, i32 63, i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 1, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>*, i32, <64 x i1>)

@mem64_dst = global i64 0, align 8
@mem64_src = global i64 0, align 8
define i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_inline_asm:
; CHECK:      # %bb.0:
; CHECK-NEXT: kmovq {{.*}}(%rip), %k0
; CHECK-NEXT: #APP
; CHECK-NEXT: #NO_APP
; CHECK-NEXT: kmovq %k0, {{.*}}(%rip)
; CHECK-NEXT: movl -{[0-9]+}}(%rsp), %eax
; CHECK-NEXT: retq
%1 = alloca i32, align 4
%2 = load i64, i64* @mem64_src, align 8
%3 = call i64 @asm "", "=k,k,~{dirflag},~{fpsr},~{flags}"(i64 %2)
store i64 %3, i64* @mem64_dst, align 8
%4 = load i32, i32* %1, align 4
ret i32 %4
}

define void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-
width"="256" {
; CHECK-LABEL: cmp_v8i64_sext:
;
CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)

```

```

; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <8 x i64>, <8 x i64>* %xptra
%y = load <8 x i64>, <8 x i64>* %yptra
%cmp = icmp slt <8 x i64> %x, %y
%ext = sext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

```

```

define void @cmp_v8i64_zext(<8 x i64>* %xptra, <8 x i64>* %yptra, <8 x i64>* %zptr) "min-legal-vector-width"="256" {

```

```

; CHECK-LABEL: cmp_v8i64_zext:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpsrlq $63, %ymm1, %ymm1
; CHECK-NEXT: vpsrlq $63, %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0,
(%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <8 x i64>, <8 x i64>* %xptra
%y = load <8 x i64>, <8 x i64>* %yptra
%cmp = icmp slt <8 x i64> %x, %y
%ext = zext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

```

```

define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v16i8:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa {{.*#+}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT: vpsubb %xmm1, %xmm2, %xmm2
; CHECK-NEXT: vpmovzxbw {{.*#+}} ymm1 =
xmm1[0],zero,xmm1[1],zero,xmm1[2],zero,xmm1[3],zero,xmm1[4],zero,xmm1[5],zero,xmm1[6],zero,xmm1[7],zero,
xmm1[8],zero,xmm1[9],zero,xmm1[10],zero,xmm1[11],zero,xmm1[12],zero,xmm1[13],zero,xmm1[14],zero,xmm1[15],zero
; CHECK-NEXT: vpmovzxbw {{.*#+}} ymm0 =
xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,
xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
;

```

```

CHECK-NEXT: vpsllvw %ymm1, %ymm0, %ymm1
; CHECK-NEXT: vpmovzxbw {{.*#+}} ymm2 =
xmm2[0],zero,xmm2[1],zero,xmm2[2],zero,xmm2[3],zero,xmm2[4],zero,xmm2[5],zero,xmm2[6],zero,xmm2[7],zer
o,xmm2[8],zero,xmm2[9],zero,xmm2[10],zero,xmm2[11],zero,xmm2[12],zero,xmm2[13],zero,xmm2[14],zero,xm
m2[15],zero
; CHECK-NEXT: vpsrlvw %ymm2, %ymm0, %ymm0
; CHECK-NEXT: vpor %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vpmovwb %ymm0, %xmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
%shl = shl <16 x i8> %a, %b
%lshr = lshr <16 x i8> %a, %b8
%or = or <16 x i8> %shl, %lshr
ret <16 x i8> %or
}

```

```

define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v32i8:
; CHECK:      # %bb.0:
; CHECK-NEXT:
    vpsllw $4, %ymm0, %ymm2
; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm3
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT: vpsllw $5, %ymm1, %ymm1
; CHECK-NEXT: vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT: vpsllw $2, %ymm0, %ymm2
; CHECK-NEXT: vpsrlw $6, %ymm0, %ymm3
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT: vpaddb %ymm1, %ymm1, %ymm1
; CHECK-NEXT: vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT: vpsrlw $7, %ymm0, %ymm2
; CHECK-NEXT: vpaddb %ymm0, %ymm0, %ymm3
; CHECK-NEXT: vpternlogq $248, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT: vpaddb %ymm1, %ymm1, %ymm1
; CHECK-NEXT: vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT: retq
%b8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
%shl = shl <32 x i8> %a, %b
%lshr = lshr
<32 x i8> %a, %b8
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}

```

```

define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256"
{

```

```

; CHECK-LABEL: splatvar_rotate_v32i8:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vpbroadcastb %xmm1, %xmm1
; CHECK-NEXT:  vpand {{.*}}(%rip), %xmm1, %xmm1
; CHECK-NEXT:  vpmovzxbq {{.*#+}} xmm2 =
xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT:  vpsllw %xmm2, %ymm0, %ymm3
; CHECK-NEXT:  vmovdqa {{.*#+}} xmm4 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT:  vpsubb %xmm1, %xmm4, %xmm1
; CHECK-NEXT:  vpcmpeqd %xmm4, %xmm4, %xmm4
; CHECK-NEXT:  vpsllw %xmm2, %xmm4, %xmm2
; CHECK-NEXT:  vpbroadcastb %xmm2, %ymm2
; CHECK-NEXT:  vpmovzxbq {{.*#+}} xmm1 =
xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT:  vpsrlw %xmm1, %ymm0, %ymm5
; CHECK-NEXT:  vpand %ymm2, %ymm3, %ymm2
; CHECK-NEXT:  vpsrlw
%xmm1, %xmm4, %xmm0
; CHECK-NEXT:  vpsrlw $8, %xmm0, %xmm0
; CHECK-NEXT:  vpbroadcastb %xmm0, %ymm0
; CHECK-NEXT:  vpternlogq $236, %ymm5, %ymm2, %ymm0
; CHECK-NEXT:  retq
%$splat = shufflevector <32 x i8> %b, <32 x i8> undef, <32 x i32> zeroinitializer
%$splat8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %$splat
%$shl = shl <32 x i8> %a, %$splat
%$lshr = lshr <32 x i8> %a, %$splat8
%$or = or <32 x i8> %$shl, %$lshr
ret <32 x i8> %$or
}

```

```

define <32 x i8> @constant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: constant_rotate_v32i8:
; CHECK-AVX512:      # %bb.0:
; CHECK-AVX512-NEXT:  vpsllw $4, %ymm0, %ymm1
; CHECK-AVX512-NEXT:  vpand {{.*}}(%rip), %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vbroadcasti128 {{.*#+}} ymm2 =
[8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]
;
CHECK-AVX512-NEXT:  # ymm2 = mem[0,1,0,1]
; CHECK-AVX512-NEXT:  vpblendvb %ymm2, %ymm1, %ymm0, %ymm1
; CHECK-AVX512-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-AVX512-NEXT:  vpand {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
; CHECK-AVX512-NEXT:  vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpaddb %ymm1, %ymm1, %ymm3
; CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
; CHECK-AVX512-NEXT:  vpblendvb %ymm2, %ymm3, %ymm1, %ymm1

```

```

; CHECK-AVX512-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm3 =
ymm0[8],ymm2[8],ymm0[9],ymm2[9],ymm0[10],ymm2[10],ymm0[11],ymm2[11],ymm0[12],ymm2[12],ymm0[13
],ymm2[13],ymm0[14],ymm2[14],ymm0[15],ymm2[15],ymm0[24],ymm2[24],ymm0[25],ymm2[25],ymm0[26],ymm
m2[26],ymm0[27],ymm2[27],ymm0[28],ymm2[28],ymm0[29],ymm2[29],ymm0[30],ymm2[30],ymm0[31],ymm2[
31]
; CHECK-AVX512-NEXT: vpsllvw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT:
    vpsrlw $8, %ymm3, %ymm3
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm0 =
ymm0[0],ymm2[0],ymm0[1],ymm2[1],ymm0[2],ymm2[2],ymm0[3],ymm2[3],ymm0[4],ymm2[4],ymm0[5],ymm2[
5],ymm0[6],ymm2[6],ymm0[7],ymm2[7],ymm0[16],ymm2[16],ymm0[17],ymm2[17],ymm0[18],ymm2[18],ymm0[
19],ymm2[19],ymm0[20],ymm2[20],ymm0[21],ymm2[21],ymm0[22],ymm2[22],ymm0[23],ymm2[23]
; CHECK-AVX512-NEXT: vpsllvw {{.*}}(%rip), %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpsrlw $8, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpor %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: constant_rotate_v32i8:
; CHECK-VBMI:    # %bb.0:
; CHECK-VBMI-NEXT: vpsllw $4, %ymm0, %ymm1
; CHECK-VBMI-NEXT: vpand {{.*}}(%rip), %ymm1, %ymm1
; CHECK-VBMI-NEXT: vbroadcasti128 {{.*#+}} ymm2 =
[8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]
; CHECK-VBMI-NEXT: # ymm2 = mem[0,1,0,1]
; CHECK-VBMI-NEXT: vpbldvb %ymm2, %ymm1,
%ymm0, %ymm1
; CHECK-VBMI-NEXT: vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT: vpand {{.*}}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT: vpaddb %ymm2, %ymm2, %ymm2
; CHECK-VBMI-NEXT: vpbldvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpaddb %ymm1, %ymm1, %ymm3
; CHECK-VBMI-NEXT: vpaddb %ymm2, %ymm2, %ymm2
; CHECK-VBMI-NEXT: vpbldvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm3 =
ymm0[8],ymm2[8],ymm0[9],ymm2[9],ymm0[10],ymm2[10],ymm0[11],ymm2[11],ymm0[12],ymm2[12],ymm0[13
],ymm2[13],ymm0[14],ymm2[14],ymm0[15],ymm2[15],ymm0[24],ymm2[24],ymm0[25],ymm2[25],ymm0[26],ymm
m2[26],ymm0[27],ymm2[27],ymm0[28],ymm2[28],ymm0[29],ymm2[29],ymm0[30],ymm2[30],ymm0[31],ymm2[
31]
; CHECK-VBMI-NEXT: vpsllvw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} ymm0 =
ymm0[0],ymm2[0],ymm0[1],ymm2[1],ymm0[2],ymm2[2],ymm0[3],ymm2[3],ymm0[4],ymm2[4],ymm0[5],ymm2[
5],ymm0[6],ymm2[6],ymm0[7],ymm2[7],ymm0[16],ymm2[16],ymm0[17],ymm2[17],ymm0[18],ymm2[18],ymm0[
19],ymm2[19],ymm0[20],ymm2[20],ymm0[21],ymm2[21],ymm0[22],ymm2[22],ymm0[23],ymm2[23]
;

```

```

CHECK-VBMI-NEXT: vpsllvw {{.*}}(%rip), %ymm0, %ymm0
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm2 =
[1,3,5,7,9,11,13,15,33,35,37,39,41,43,45,47,17,19,21,23,25,27,29,31,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT: vperm2b %ymm3, %ymm0, %ymm2
; CHECK-VBMI-NEXT: vpor %ymm2, %ymm1, %ymm0
; CHECK-VBMI-NEXT: retq
%shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1>
%lshr = lshr <32 x i8> %a, <i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}

```

```

define <32 x i8> @splatconstant_rotate_v32i8(<32
x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: splatconstant_rotate_v32i8:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpsllw $4, %ymm0, %ymm1
; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm0
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
; CHECK-NEXT: retq
%shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}

```

```

define <32 x i8> @splatconstant_rotate_mask_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: splatconstant_rotate_mask_v32i8:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpsllw $4, %ymm0,
%ymm1
; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm0
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
; CHECK-NEXT: vpand {{.*}}(%rip), %ymm0, %ymm0
; CHECK-NEXT: retq
%shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%rmask = and <32 x i8> %lshr, <i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55>
%lmask = and <32 x i8> %shl, <i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33>

```


[illegible]

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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

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lldbCore
lldbHost
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```
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --
scrub-attributes

; RUN: opt -attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -
attributor-max-iterations=4 -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_CGSCC_NPM,NOT_CGSCC_OPM,NOT_TUNIT_NPM,IS__TUNIT____,IS______OP
M,IS__TUNIT_OPM

; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations-verify -
attributor-annotate-decl-cs -attributor-max-iterations=3 -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM,IS__TUNIT____,IS______NP
M,IS__TUNIT_NPM

; RUN: opt -attributor-cgsc -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s | FileCheck %s --
check-
prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_NPM,IS__CGSCC____,IS______OP
M,IS__CGSCC_OPM

; RUN: opt -aa-pipeline=basic-aa -passes=attributor-cgsc -attributor-manifest-internal
-attributor-annotate-decl-cs -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_OPM,IS__CGSCC____,IS______NP
M,IS__CGSCC_NPM

; Test that we only promote arguments when the caller/callee have compatible
; function attributes.
```

target triple = "x86_64-unknown-linux-gnu"

```
; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
;
; NOT_TUNIT_NPM-LABEL: define
{[[@+]]} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture norefree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture norefree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:
ret void
;
; IS__TUNIT_NPM-LABEL: define
{[[@+]]} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture norefree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
```

```

; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
;
; IS__TUNIT_OPM-LABEL: define {{^[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
;
IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {{^[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture
writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM-LABEL: define {{^[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
;

```

```

IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM-LABEL:
define {{^(^@)+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]],
<8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {

```

```

;
; NOT_TUNIT_NPM-LABEL: define
{[^(+)]}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nfree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nfree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:
[[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define
{[^(+)]}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nfree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8
x i64>* %arg) #1 {
;
; IS__TUNIT_OPM-LABEL: define {[^(+)]}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nfree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nfree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]],
align 2
; IS__TUNIT_OPM-NEXT: ret void
;

```

```

; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nfree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:
    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nfree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nfree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]]
    = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nfree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nfree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2

```

```

; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
;
; NOT_TUNIT_NPM-LABEL: define
{[[@+]]}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull
    writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:  ret void
;
; IS__TUNIT_NPM-LABEL: define
{[[@+]]}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:  ret
    void
;
bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
;

```

```

; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nopcode writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nopcode nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nopcode nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nopcode nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nopcode writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nopcode nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nopcode
nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nopcode nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nopcode nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nopcode
nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nopcode nofree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;

```

```

; IS__CGSCC_NPM-LABEL: define {[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8
x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias
nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>*
readonly %arg1) #0 {
;
; NOT_TUNIT_NPM-LABEL: define
{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define
{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64

```



```

; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:
    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
;
; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8
x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree
nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] =
    load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512

```

```

; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64)
[[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nfree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nfree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM-LABEL: define { {^@}+ } @avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8*
nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nfree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nfree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4,
<8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {

```

```

;
; NOT_TUNIT_NPM-LABEL: define
{[^(+)]}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nfree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nfree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS_TUNIT_NPM-LABEL: define
{[^(+)]}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS_TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nfree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* noalias nocapture nfree nonnull
readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; IS_TUNIT_NPM-NEXT: bb:
; IS_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS_TUNIT_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
;
; IS_TUNIT_OPM-LABEL: define {[^(+)]}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS_TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS_TUNIT_OPM-NEXT: bb:
; IS_TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS_TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS_TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS_TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]],
i8 0, i64 32, i1 false)
; IS_TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nfree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nfree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS_TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS_TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS_TUNIT_OPM-NEXT: ret void
;
; IS_TUNIT_NPM-LABEL: define {[^(+)]}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS_TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS_TUNIT_NPM-NEXT: bb:

```

```

; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nfree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nfree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM-LABEL: define {{^@+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:
call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0,
i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nfree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nfree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM-LABEL: define {{^@+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]]
= bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nfree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nfree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
;
bb:

```

```

%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

; This should not promote

```

define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #2 {
;
; NOT_TUNIT_NPM-LABEL: define
{{{^@}}}@callee_avx512_legal256_prefer256_call_avx512_legal256_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define
{{{^@}}}@callee_avx512_legal256_prefer256_call_avx512_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly
align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64
dereferenceable(64) [[ARG1:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

```

```

define void @avx512_legal256_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
;
; IS__TUNIT_OPM-LABEL: define {{{^@}}}@avx512_legal256_prefer256_call_avx512_legal256_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*

```

```

; IS__TUNIT_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8*
nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture norelease nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture norelease nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:  ret void
;
; IS__TUNIT_NPM-LABEL: define {{^@+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:
    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0,
i64 32, i1 false)
; IS__TUNIT_NPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture norelease
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture norelease nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__TUNIT_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:  ret void
;
; IS__CGSCC_OPM-LABEL: define {{^@+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:
    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture norelease nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture norelease nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM-LABEL: define {{^@+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32

```

```

; IS__CGSCC_NPM-NEXT:
    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nfree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nfree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8
x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
;
; NOT_TUNIT_NPM-LABEL: define
{[[@+]]}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nfree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nfree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:  ret void
;
; IS__TUNIT_NPM-LABEL: define {[[@+]]}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_NPM-SAME:
(<8 x i64>* noalias nocapture nfree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>
[[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:  ret void

```

```

;
bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
;
; IS__TUNIT_OPM-LABEL: define {{^[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP2:%.*]]
    = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT:  call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly
align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64)
[[TMP]])
; IS__TUNIT_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:  ret void
;
; IS__TUNIT_NPM-LABEL: define {{^[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:
    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT:  [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:  call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:  ret void
;
; IS__CGSCC_OPM-LABEL: define {{^[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
;

```



```

IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:  call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly
align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64)
[[TMP]])
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM-LABEL: define {{^[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:  call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x
i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #4 {
;
; NOT_TUNIT_NPM-LABEL: define

```

```

{{^[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture norelease nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture norelease nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:
ret void
;
; IS__TUNIT_NPM-LABEL: define {{^[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture norelease nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
;
; IS__TUNIT_OPM-LABEL: define {{^[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
;
IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture norelease nonnull writeonly
align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture norelease nonnull readonly align 64 dereferenceable(64)
[[TMP]])
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {{^[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly
[[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:

```

```

; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM-LABEL: define {{^@+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
;
IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly
align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64)
[[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM-LABEL: define {{^@+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
;
IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:
ret void
;

```

```

bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

```

; Function Attrs: argmemonly nounwind

declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }

attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }

attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }

attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }

attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }

attributes #5 = { argmemonly nounwind }

; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py

; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX

; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,AVX512VL256

; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,AVX512VL512

; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256

; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,SKX512

define void @zext256() "min-legal-vector-width"="256" {

; VEC256-LABEL: 'zext256'

; VEC256-NEXT: Cost

Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>

; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>

; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x

```

i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8>
undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of
0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

```

```

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x

```

```

i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'zext512'
;
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated
cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT:
Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>

```

```

; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

```

```

define void @sext256()
"min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL512-NEXT: Cost
Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

```

```

;
; SKX512-LABEL: 'sext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'sext512'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>

```



```

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT:
Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL:
'sext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>

```

```

%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F
= sext <32 x i8> undef to <32 x i16>
ret void
}

```

```

define void @trunc256() "min-legal-vector-width"="256" {
; AVX-LABEL: 'trunc256'
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'trunc256'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A =
trunc <8 x i64> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to
<8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef
to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef
to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to
<16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to
<32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'trunc256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to
<8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to
<8 x i16>
; AVX512VL512-NEXT:
Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef
to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to
<16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to
<32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

```

```

;
; SKX256-LABEL: 'trunc256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 6 for instruction:
%D = trunc <16 x i32> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'trunc256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated
cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = trunc <8 x i64> undef to <8 x i32>
%B = trunc <8 x i64> undef to <8 x i16>
%C = trunc <8 x i64> undef to <8 x i8>
%D = trunc <16 x i32> undef to <16 x i16>
%E = trunc <16 x i32> undef to <16 x i8>
%F = trunc <32 x i16> undef to <32 x i8>
ret void
}

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'zext256_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x
i64>

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; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x
i32>
; AVX-NEXT: Cost Model: Found
an estimated cost of 1 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = zext <8 x i1> undef to <8 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = zext <16 x i1> undef to <16 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX-NEXT:
Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x
i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x
i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x
i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'zext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef
to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef
to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction:
%V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef
to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef
to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef
to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1>
undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i16 = zext <2 x i1> undef
to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i16 = zext <4 x i1> undef

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to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'zext256_vXi1'
;
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model:
Found an estimated cost of 4 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to

```

<2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to
<4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to
<8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef
to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of
9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1>
undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'zext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8
x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to
<16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to
<16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = zext <32 x i1> undef to
<32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for
instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16
x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32
x i8>

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; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = zext <64 x i1> undef to <64
x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'zext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x
i32>
; SKX512-NEXT:
    Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to
<16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to
<16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to
<32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction:
    %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
    %V2i64 = zext <2 x i1> undef to <2 x i64>
    %V4i64 = zext <4 x i1> undef to <4 x i64>
    %V8i64 = zext <8 x i1> undef to <8 x i64>

    %V2i32 = zext <2 x i1> undef to <2 x i32>

```

```
%V4i32 = zext <4 x i1> undef to <4 x i32>
%V8i32 = zext <8 x i1> undef to <8 x i32>
%V16i32 = zext <16 x
i1> undef to <16 x i32>
```

```
%V2i16 = zext <2 x i1> undef to <2 x i16>
%V4i16 = zext <4 x i1> undef to <4 x i16>
%V8i16 = zext <8 x i1> undef to <8 x i16>
%V16i16 = zext <16 x i1> undef to <16 x i16>
%V32i16 = zext <32 x i1> undef to <32 x i16>
```

```
%V2i8 = zext <2 x i1> undef to <2 x i8>
%V4i8 = zext <4 x i1> undef to <4 x i8>
%V8i8 = zext <8 x i1> undef to <8 x i8>
%V16i8 = zext <16 x i1> undef to <16 x i8>
%V32i8 = zext <32 x i1> undef to <32 x i8>
%V64i8 = zext <64 x i1> undef to <64 x i8>
```

```
ret i32 undef
}
```

```
define i32 @sext256_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'sext256_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %i64 = sext i1 undef to i64
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7
for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %i32 = sext i1 undef to i32
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = sext <16 x i1> undef to <16 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %i16 = sext i1 undef to i16
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction:
%V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x
i16>
```



```

; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x
i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x
i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction:
%V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'sext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef
to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef
to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef
to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef
to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef
to <4 x i32>
; AVX512VL256-NEXT:
Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1>
undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = sext <2 x i1> undef
to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = sext <4 x i1> undef
to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = sext <8 x i1> undef
to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1>
undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1>
undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found
an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i8 = sext <2 x i1> undef to
<2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef to
<4 x i8>

```

```

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef to
<8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1>
undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1>
undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 42 for instruction: %V64i8 = sext <64 x i1>
undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'sext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction:
%I64 = sext i1 undef to i64
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef
to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef
to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef
to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef
to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef
to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef
to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1>
undef to <16 x i32>
; AVX512VL512-NEXT:
Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = sext <2 x i1> undef
to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = sext <4 x i1> undef
to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = sext <8 x i1> undef
to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = sext <16 x i1>
undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = sext <32 x i1>
undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> undef to
<2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction:
%V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> undef to
<8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = sext <16 x i1> undef

```

```

to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = sext <32 x i1> undef
to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = sext <64 x i1>
undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'sext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x
i64>
; SKX256-NEXT:
Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to
<16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef
to <4 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to
<16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to
<32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16
x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction:
%V32i8 = sext <32 x i1> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V64i8 = sext <64 x i1> undef to <64
x i8>

```

```

; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'sext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost
of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to
<16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to
<16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to
<32 x i16>
; SKX512-NEXT:
Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i8 = sext <64 x i1> undef to <64
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%I64 = sext i1 undef to i64
%V2i64 = sext <2 x i1> undef to <2 x i64>

```

%V4i64 = sext <4 x i1> undef to <4 x i64>

%V8i64 =

sext <8 x i1> undef to <8 x i64>

%I32 = sext i1 undef to i32

%V2i32 = sext <2 x i1> undef to <2 x i32>

%V4i32 = sext <4 x i1> undef to <4 x i32>

%V8i32 = sext <8 x i1> undef to <8 x i32>

%V16i32 = sext <16 x i1> undef to <16 x i32>

%I16 = sext i1 undef to i16

%V2i16 = sext <2 x i1> undef to <2 x i16>

%V4i16 = sext <4 x i1> undef to <4 x i16>

%V8i16 = sext <8 x i1> undef to <8 x i16>

%V16i16 = sext <16 x i1> undef to <16 x i16>

%V32i16 = sext <32 x i1> undef to <32 x i16>

%I8 = sext i1 undef to i8

%V2i8 = sext <2 x i1> undef to <2 x i8>

%V4i8 = sext <4 x i1> undef to <4 x i8>

%V8i8 = sext <8 x i1> undef to <8 x i8>

%V16i8 = sext <16 x i1> undef to <16 x i8>

%V32i8 = sext <32 x i1> undef to <32 x i8>

%V64i8 = sext <64 x i1> undef to <64 x i8>

ret i32 undef

}

define i32 @trunc_vXi1() "min-legal-vector-width"="256" {

; AVX-LABEL: 'trunc_vXi1'

; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>

```

; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction:
%V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to
<32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i32 = trunc <64 x i32> undef to
<64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16
x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32
x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 18 for instruction: %V64i16 = trunc <64 x i16> undef to
<64 x i1>
; AVX-NEXT: Cost Model:
Found an estimated cost of 1 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'trunc_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64>
undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4
x i64> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64>
undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32>
undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32>
undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32>

```

```

undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32>
undef
to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V32i32 = trunc <32 x i32>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V64i32 = trunc <64 x i32>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16>
undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16>
undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16>
undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i16 = trunc <16 x i16>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V32i16 = trunc <32 x i16>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V64i16 = trunc <64 x i16>
undef to
<64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef
to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef
to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef
to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i8 = trunc <16 x i8>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 17 for instruction: %V32i8 = trunc <32 x i8>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 34 for instruction: %V64i8 = trunc <64 x i8>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'trunc_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64>
undef to <2 x i1>
; AVX512VL512-NEXT:
Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64>
undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64>
undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64>
undef to <64 x i1>

```

```

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32>
undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32>
undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32>
undef to <8 x i1>
; AVX512VL512-NEXT:
Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32>
undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16>
undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16>
undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16>
undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16>
undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = trunc <32 x i16>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model:
Found an estimated cost of 14 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef
to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef
to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef
to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = trunc <16 x i8>
undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = trunc <32 x i8>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = trunc <64 x i8>
undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'trunc_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated
cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to
<16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to

```



```

<32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to
<64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32>
undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to
<16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to
<32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V64i32 = trunc <64 x i32> undef to
<64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to
<16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = trunc <32 x i16> undef to
<32 x i1>
; SKX256-NEXT: Cost Model: Found
an estimated cost of 11 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x
i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x
i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x
i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to
<16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to
<32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = trunc <64 x i8> undef to
<64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'trunc_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2
x i64> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8
x i1>

```

```

; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to
<16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to
<32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to
<64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8
x i1>
; SKX512-NEXT: Cost Model:
Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i32 = trunc <32 x i32> undef to
<32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i32 = trunc <64 x i32> undef to
<64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to
<16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = trunc <32 x i16> undef to
<32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction:
%V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x
i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x
i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x
i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to
<16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to
<32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to
<64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%V2i64 = trunc <2 x i64> undef to <2 x i1>
%V4i64 = trunc <4 x i64> undef to <4 x i1>
%V8i64 = trunc <8 x i64> undef to <8 x i1>
%V16i64 = trunc <16 x i64>

```

```

undef to <16 x i1>
%V32i64 = trunc <32 x i64> undef to <32 x i1>
%V64i64 = trunc <64 x i64> undef to <64 x i1>

%V2i32 = trunc <2 x i32> undef to <2 x i1>
%V4i32 = trunc <4 x i32> undef to <4 x i1>
%V8i32 = trunc <8 x i32> undef to <8 x i1>
%V16i32 = trunc <16 x i32> undef to <16 x i1>
%V32i32 = trunc <32 x i32> undef to <32 x i1>
%V64i32 = trunc <64 x i32> undef to <64 x i1>

%V2i16 = trunc <2 x i16> undef to <2 x i1>
%V4i16 = trunc <4 x i16> undef to <4 x i1>
%V8i16 = trunc <8 x i16> undef to <8 x i1>
%V16i16 = trunc <16 x i16> undef to <16 x i1>
%V32i16 = trunc <32 x i16> undef to <32 x i1>
%V64i16 = trunc <64 x i16> undef to <64 x i1>

%V2i8 = trunc <2 x i8> undef to <2 x i1>
%V4i8 = trunc <4 x i8> undef to <4 x i1>
%V8i8 = trunc <8 x i8> undef to <8 x i1>
%V16i8 = trunc <16 x i8> undef to <16 x i1>
%V32i8 = trunc <32 x i8> undef to <32 x i1>
%V64i8 = trunc <64 x i8> undef to <64 x i1>

ret i32 undef
}

```

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1.221 xdg-utils 1.1.3-4.1ubuntu3~22.04.1

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1.223 gzip 1.10-4ubuntu4.1

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1.224 libnsl 1.3.0-2build2

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the work with the complete corresponding

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

That's all there is to it!

1.225 emoji-regex 8.0.0

1.225.1 Available under license :

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1.226 emoji-regex 9.2.2

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1.227 zlib 1.2.11.dfsg-2ubuntu9.2

1.227.1 Available under license :

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```
/* 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):

```
* /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.

```
/* 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):

```
* /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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h

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Found in path(s):

* /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.

```
/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

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```
/* 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):

* /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.

```
/* 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):

* /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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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):

* /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.


```
/* 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):

```
* /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.

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

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
```

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):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

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/*

* 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):

* /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.

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

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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 (deflate format) and 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> 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 (formerly 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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jloup@gzip.org	madler@alumni.caltech.edu

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Found in path(s):

* /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.

/* 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):

* /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.

/* 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):

* /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.

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.h

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

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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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

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):

* /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.

/* 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):

* /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.

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein

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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.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):

* /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.

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.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):

* /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.

/* 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):

* /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):

* /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.

/*

Additional tools for Minizip

Code: Xavier Roche '2004

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

*/

Found in path(s):

- * /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
- * /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

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):

- * /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.

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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Found in path(s):

* /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.

```
/* 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):

```
* /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.

```
/* 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):

```
* /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.

```
/* 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):

* /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.

/* 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):

* /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.

/* 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):

* /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.

/* 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):

* /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.

/* Adler-32.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):

* /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.

/* 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):

* /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.

/* 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):

* /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.

/* 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):

* /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.

/* 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):

* /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.

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 Gilles 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.228 x-text 0.3.8

1.228.1 Available under license :

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1.229 xfonts-encodings 1.0.5-0ubuntu2

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Juliusz Chroboczek

1.230 fonts-ipafont 00303-21ubuntu1

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IPAv1.0

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1.232 d-bus 1.12.20-2ubuntu4.1

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1.242 prometheus-client-model 0.2.0

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1.244 libnet-ssleay-perl 1.92-1build2

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1.246 session-migration 0.3.6

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Client application for querying drivers' configuration information
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Client application for querying drivers' configuration information
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1.249 http-cache-semantics 4.1.1

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* Authors:

* Ben Widawsky <ben@bwidawsk.net>

*

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=====

Submitting Patches

Patches should be sent to dri-devel@lists.freedesktop.org, using git send-email. For patches only touching driver specific code one of the driver mailing lists (like amd-gfx@lists.freedesktop.org) is also appropriate. See git documentation for help:

<http://git-scm.com/documentation>

Since dri-devel is a very busy mailing list please use `--subject-prefix="PATCH libdrm"` to make it easier to find libdrm patches. This is best done by running

`git config --local format.subjectprefix "PATCH libdrm"`

The first line of a commit message should contain a prefix indicating what part is affected by the patch followed by one sentence that describes the change. For examples:

amdgpu: Use uint32_t i in amdgpu_find_bo_by_cpu_mapping

The body of the commit message should describe what the patch changes and why, and also note any particular side effects. For a recommended reading on writing commit messages, see:

<http://who-t.blogspot.de/2009/12/on-commit-messages.html>

Your patches should also include a Signed-off-by line with your name and email address. If you're not the patch's original author, you should also gather S-o-b's by them (and/or whomever gave the patch to you.) The significance of this is that it certifies that you created the patch, that it was created under an appropriate open source license, or provided to you under those terms. This lets us indicate a chain of responsibility for the copyright status of the code. For more details:

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We won't reject patches that lack S-o-b, but it is strongly recommended.

Review and Merging

Patches should have at least one positive review (Reviewed-by: tag) or indication of approval (Acked-by: tag) before merging. For any code shared between drivers this is mandatory.

Please note that kernel/userspace API header files have special rules, see include/drm/README.

Coding style in the project loosely follows the CodingStyle of the linux kernel:

<https://www.kernel.org/doc/html/latest/process/coding-style.html?highlight=coding%20style>

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Commit rights will be granted to anyone who requests them and fulfills the below criteria:

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 *
 * DESCRIPTION
 *
 * This file contains a simple, straightforward implementation of the Park
 * & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
 * multiplicative linear congruential generator (MLCG) with a period of
 * $2^{31}-1$.
 *
 * This implementation is intended to provide a reliable, portable PRNG
 * that is suitable for testing a hash table implementation and for
 * implementing skip lists.
 *
 * FUTURE ENHANCEMENTS
 *
 * If initial seeds are not selected randomly, two instances of the PRNG
 * can be correlated.
 * [Knuth81, pp. 32-33] describes a shuffling technique
 * that can eliminate this problem.
 *
 * If PRNGs are used for simulation, the period of the current
 * implementation may be too short. [LE88] discusses methods of combining
 * MLCGs to produce much longer periods, and suggests some alternative
 * values for A and M. [LE90 and Sch92] also provide information on
 * long-period PRNGs.
 *
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- * Number Generators". CACM 36(7), July 1993, pp. 105-110.
- *
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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/nouveau/bufctx.c

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/nouveau/abi16.c

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/nouveau/nouveau.c

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/*

* Arm Framebuffer Compression (AFBC) modifiers

*

* AFBC is a proprietary lossless image compression protocol and format.

* It provides fine-grained random access and minimizes the amount of data

* transferred between IP blocks.

*

* AFBC has several features which may be supported and/or used, which are

* represented using bits in the modifier. Not all combinations are valid,

* and different devices or use-cases may support different combinations.

*

* Further information on the use of AFBC modifiers can be found in

* Documentation/gpu/afbc.rst

*/

/*

* Arm Fixed-Rate Compression (AFRC) modifiers

*

* AFRC is a proprietary fixed rate image compression protocol and format,

* designed to provide guaranteed bandwidth and memory footprint

* reductions

in graphics and media use-cases.

*

* AFRC buffers consist of one or more planes, with the same components

* and meaning as an uncompressed buffer using the same pixel format.

*

* Within each plane, the pixel/luma/chroma values are grouped into

* "coding unit" blocks which are individually compressed to a

* fixed size (in bytes). All coding units within a given plane of a buffer

* store the same number of values, and have the same compressed size.

*

* The coding unit size is configurable, allowing different rates of compression.

*

* The start of each AFRC buffer plane must be aligned to an alignment granule which

* depends on the coding unit size.

*

* Coding Unit Size Plane Alignment

* ----- -----

* 16 bytes 1024 bytes

* 24 bytes 512 bytes

* 32 bytes 2048 bytes

*
 * Coding units are grouped into paging tiles. AFRC buffer dimensions must be aligned
 * to a multiple of the paging tile dimensions.
 * The dimensions
 of each paging tile depend on whether the buffer is optimised for
 * scanline (SCAN layout) or rotated (ROT layout) access.
 *
 * Layout Paging Tile Width Paging Tile Height
 * -----
 * SCAN 16 coding units 4 coding units
 * ROT 8 coding units 8 coding units
 *
 * The dimensions of each coding unit depend on the number of components
 * in the compressed plane and whether the buffer is optimised for
 * scanline (SCAN layout) or rotated (ROT layout) access.
 *
 * Number of Components in Plane Layout Coding Unit Width Coding Unit Height
 * -----
 * 1 SCAN 16 samples 4 samples
 * Example: 16x4 luma samples in a 'Y' plane
 * 16x4 chroma 'V' values, in the 'V' plane of a fully-planar YUV buffer
 * -----
 * 1
 * ROT 8 samples 8 samples
 * Example: 8x8 luma samples in a 'Y' plane
 * 8x8 chroma 'V' values, in the 'V' plane of a fully-planar YUV buffer
 * -----
 * 2 DONT CARE 8 samples 4 samples
 * Example: 8x4 chroma pairs in the 'UV' plane of a semi-planar YUV buffer
 * -----
 * 3 DONT CARE 4 samples 4 samples
 * Example: 4x4 pixels in an RGB buffer without alpha
 * -----
 * 4 DONT CARE 4 samples 4 samples
 * Example: 4x4 pixels in an RGB buffer with alpha
 */
 /*
 * Amlogic Video Framebuffer Compression modifiers
 *
 * Amlogic uses a proprietary lossless image compression protocol and format
 * for their hardware video codec accelerators, either video decoders or
 * video input encoders.
 *
 * It considerably reduces memory bandwidth while writing and reading
 * frames in memory.
 *
 * The underlying storage is considered to be 3 components, 8bit or 10-bit
 * per component YCbCr 420, single plane :

```

* - DRM_FORMAT_YUV420_8BIT
* - DRM_FORMAT_YUV420_10BIT
*
* The first 8 bits of the mode defines the layout, then the following 8 bits
* defines the options changing the layout.
*
* Not all combinations are valid, and different SoCs may support different
* combinations of layout and options.
*/
/*
* 64K_S is the same for GFX9/GFX10/GFX10_RBPLUS and hence has GFX9 as canonical
* version.
*/

```

Found in path(s):

```

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/include/drm/drm_fourcc.h

```

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/* xf86drmSL.c -- Skip list support
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*

```

* This file contains a straightforward skip list implementation.n
 *
 * FUTURE ENHANCEMENTS
 *
 * REFERENCES
 *
 * [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to
 * Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
 *
 */

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The rules-ng-ng source files this header was generated from are:

- cmdstream.xml (12621 bytes, from 2016-09-06 14:44:16)

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* Chris Wilson <chris@chris-wilson.co.uk>

*

*/

Found in path(s):

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/xf86atomic.h

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The release criteria for libdrm is essentially "if you need a release,
make one". There is no designated release engineer or maintainer.
Anybody is free to make a release if there's a certain feature or bug
fix they need in a released version of libdrm.

When new ioctl definitions are merged into drm-next, we will add
support to libdrm, at which point we typically create a new release.
However, this is up to whoever is driving the feature in question.

Follow these steps to release a new version of libdrm:

1) Bump the version number in meson.build. We seem to have settled for
2.4.x as the versioning scheme for libdrm, so just bump the micro
version.

2) Run `ninja -C builddir/ dist` to generate the tarballs.
Make sure that the version number of the tarball name in

builddir/meson-dist/ matches the number you bumped to. Move that tarball to the libdrm repo root for the release script to pick up.

3) Push the updated main branch with the bumped version number:

git push origin main

assuming the remote for the upstream libdrm repo is called origin.

4) Use the release.sh script from the xorg/util/modular repo to upload the tarballs to the freedesktop.org download area and create an announce email template. The script takes one argument: the path to the libdrm checkout. So, if a checkout of modular is at the same level than the libdrm repo:

./modular/release.sh libdrm

This copies the two tarballs to freedesktop.org and creates libdrm-2.4.16.announce which has a detailed summary of the changes, links to the tarballs, MD5 and SHA1 sums and pre-filled out email headers. Fill out the blank between the email headers and the list of changes with a brief message of what changed or what prompted this release. Send out the email and you're done!

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/RELEASING

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/include/drm/qxl_drm.h
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/include/drm/virtgpu_drm.h
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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>

*/

Found in path(s):

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/xf86drmHash.h
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/xf86drmRandom.h
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/* exynos_drm.h

*

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* Authors:

* Inki Dae <inki.dae@samsung.com>

* Joonyoung Shim <jy0922.shim@samsung.com>
 * Seung-Woo Kim <sw0312.kim@samsung.com>
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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/amdgpu/amdgpu.h

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/amdgpu/amdgpu_vamgr.c

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/amdgpu/amdgpu_device.c

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/vce_tests.c

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/frame.h

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* sync abstraction

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*

* Authors:
* Jerome Glisse <j.glisse@gmail.com>
*/

Found in path(s):

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/radeon/rbo.c
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/radeon/radeon_ttm.c
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/radeon/rbo.h

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/* radeon_drm.h -- Public header for the radeon driver -*- linux-c -*-
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* Authors:
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* Gareth Hughes <gareth@valinux.com>
* Keith Whitwell <keith@tungstengraphics.com>
*/

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/include/drm/radeon_drm.h

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/pattern.c
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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/format.h
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/format.c
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/kms.c
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/pattern.h
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/kms.h

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- * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/ras_tests.c
- * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/syncobj_tests.c
- * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/vm_tests.c
- * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/uve_ib.h
- * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/uvd_enc_tests.c
- * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/vcn_tests.c
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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/basic_tests.c
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/amdgpu_test.c
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/cs_tests.c
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/amdgpu_test.h

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/exynos/exynos_fimg2d.c
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/exynos/exynos_fimg2d_test.c

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* Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com

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 *
 * Authors: Rickard E. (Rik) Faith <faith@valinux.com>
 *
 * DESCRIPTION
 *
 * This file contains a straightforward skip list implementation.n
 *
 * FUTURE ENHANCEMENTS
 *
 * REFERENCES
 *
 * [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to
 * Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
 *
 */

Found in path(s):

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/drmsl.c

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/xf86drm.h

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/* savage_drm.h -- Public header for the savage driver

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/include/drm/savage_drm.h

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* GLX Hardware Device Driver common code

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/intel/mm.c

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 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/shader_code_hang.h
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/shader_code_gfx11.h
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/shader_code_gfx10.h
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/shader_code_gfx9.h
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/shader_code.h

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 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/nouveau/meson.build
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 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/amdgpu/meson.build
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/modeprint/meson.build
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/meson.build
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/nouveau/meson.build
 *
 /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tegra/meson.build
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/meson.build
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/meson.build
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/exynos/meson.build
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/modetest/meson.build

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/freedreno/meson.build
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/exynos/meson.build
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/omap/meson.build
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/data/meson.build
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/meson.build
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/intel/meson.build
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/etnaviv/meson.build
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/meson.build
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/meson_options.txt
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/proptest/meson.build
*

/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/radeon/meson.build
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/vbltest/meson.build
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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tegra/tegra.c
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tegra/tegra.h
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tegra/pushbuf.c

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/*

* DRM based mode setting test program

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 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic.h
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic40.c
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/syncpt-wait.c
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic-clear.c
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic-blit.c
 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic30.h
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 * /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic42.c

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/* xf86drmHash.c -- Small hash table support for integer -> integer mapping

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- *
- * Authors: Rickard E. (Rik) Faith <faith@valinux.com>
- *
- * DESCRIPTION
- *
- * This file contains a straightforward implementation of a fixed-sized
- * hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
- * collision resolution. There are two potentially interesting things
- * about this implementation:
- *
- * 1) The table is power-of-two sized. Prime sized tables are more
- * traditional, but do not have a significant advantage over power-of-two
- * sized table, especially when double hashing is not used for collision
- * resolution.
- *
- * 2) The hash computation
- uses a table of random integers [Hanson97,
- * pp. 39-41].
- *
- * FUTURE ENHANCEMENTS
- *
- * With a table size of 512, the current implementation is sufficient for a
- * few hundred keys. Since this is well above the expected size of the
- * tables for which this implementation was designed, the implementation of
- * dynamic hash tables was postponed until the need arises. A common (and
- * naive) approach to dynamic hash table implementation simply creates a
- * new hash table when necessary, rehashes all the data into the new table,
- * and destroys the old table. The approach in [Larson88] is superior in
- * two ways: 1) only a portion of the table is expanded when needed,
- * distributing the expansion cost over several insertions, and 2) portions
- * of the table can be locked, enabling a scalable thread-safe

* implementation.

*

* REFERENCES

*

* [Hanson97] David R. Hanson. C Interfaces and Implementations:

* Techniques for Creating Reusable Software. Reading, Massachusetts:

* Addison-Wesley, 1997.

*

* [Knuth73] Donald E. Knuth. The Art of Computer Programming. Volume 3:

* Sorting and Searching. Reading, Massachusetts: Addison-Wesley, 1973.

*

* [Larson88] Per-Ake Larson. "Dynamic Hash Tables". CACM 31(4), April

* 1988, pp. 446-457.

*

*/

Found in path(s):

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/xf86drmHash.c

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/hash.c

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- state.xml (18940 bytes, from 2016-09-06 14:14:12)

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/etnaviv/state_2d.xml.h

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/etnaviv/state.xml.h

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* Christian Gmeiner <christian.gmeiner@gmail.com>

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/etnaviv/etnaviv_device.c

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/* mga_drm.h -- Public header for the Matrox g200/g400 driver *- linux-c *-

* Created: Tue Jan 25 01:50:01 1999 by jhartmann@precisioninsight.com

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* Authors:

* Jeff Hartmann <jhartmann@valinux.com>

* Keith Whitwell <keith@tungstengraphics.com>

*

* Rewritten by:

* Gareth Hughes <gareth@valinux.com>

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/drm-test.h

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/openclclose.c

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/drm-test-tegra.c

* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/drm-test-tegra.h

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/freedreno/freedreno_ringbuffer.c
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/freedreno/freedreno_bo.c
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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/etnaviv/etnaviv_2d_test.c
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/etnaviv/etnaviv_pipe.c
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* Authors:

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*

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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/intel/Android.mk

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```
*
* Authors:
*   Gareth Hughes <gareth@valinux.com>
*   Kevin E. Martin <martin@valinux.com>
*/
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* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/include/drm/r128_drm.h
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```
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/exynos/exynos_drmif.h
```

```
* /libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/exynos/exynos_drm.c
```

1.251 libsecret 0.20.5-2

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1.252 just-diff-apply 5.5.0

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1.253 read-package-json-fast 3.0.2

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1.254 mute-stream 1.0.0

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1.255 cyrus-sasl 2.1.27+dfsg2-3ubuntu1.2

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* Tim Martin
* Rob Earhart
* Rob Siemborski
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*/
/* CMU libsassl
* Tim Martin
* Rob Earhart
```

```

* Rob Siemborski
*/
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1.256 spdx-correct 3.2.0

1.256.1 Available under license :

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1.257 libnet-smtp-ssl-perl 1.04-1

1.257.1 Available under license :

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Upstream-Name: Net-SMTP-SSL

Upstream-Contact: Ricardo SIGNES <rjbs@cpan.org>

Source: <https://metacpan.org/release/Net-SMTP-SSL>

Files: *

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1.258 libhttp-negotiate-perl 6.01-1

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Upstream-Name: HTTP-Negotiate

Upstream-Contact: Gisle Aas <gisle@activestate.com>

Source: <https://metacpan.org/release/HTTP-Negotiate>

Files: *

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1.259 libwww-robotrules-perl 6.02-1

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Upstream-Name: WWW-RobotRules

Upstream-Contact: Gisle Aas <gisle@activestate.com>

Source: <https://metacpan.org/release/WWW-RobotRules>

Files: *

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1.260 libsemanage-common 3.3-1build2

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary.

Here is a sample; alter the names:

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

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Version 2, June 1991

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

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Most

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public

License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library".

The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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Otherwise, if the work

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1.268 libjpeg-turbo 2.1.5

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#

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#

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/bdflib.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/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
EOF
FREETYPE LICENSES
-----
```

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The gzip module uses the zlib license (see ``src/gzip/zlib.h``) which too is compatible to the above two licenses.

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1.270 @pkgjs/parseargs 0.11.0

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1.271 npm-normalize-package 3.0.1

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1.272 @isaacs/cliui 8.0.2

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1.273 write-file-atomic 5.0.1

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1.274 walk-up-path 3.0.1

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1.276 ncurses 6.3-2ubuntu0.1

1.276.1 Available under license :

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

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

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

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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1.281 sqlite 3.42.0

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1.282 npm-audit-report 5.0.0

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1.283 shim 0.3

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1.284 exponential-backoff 3.1.1

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1.285 chalk 5.3.0

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1.286 supports-color 9.4.0

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1.287 libuv 1.46.0

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

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```

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```
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```

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```
<!-- Creator   : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
```

```

<title>GNU Modula-2</title>
</head>

<body>
<!-- site wide top running header menu -->

<ul id="overview">
  <li class="home">
    HOME_HREF
  </li>
  <li class="release">
    12_HREF
  </li>

  <li>
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">

    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>

```

</div>

<div id="page">

<div class="plain">

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</div>

</div>

</body>

</html>

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1.290 llvm-toolchain-15 15.0.7- 0ubuntu0.22.04.3

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de Minimis description of such content.

; RUN: llc -march=hexagon < %s

; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types

; cause LSR to assume type "void" for the memory type. This would then

; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }

%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {

entry:

```

br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:
    ; preds = %entry
    br label %while.body

while.body:
    ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [
        i32 1, label %sw.bb.i
        i32 2, label %sw.bb3.i
    ]

sw.bb.i:
    ; preds = %while.body
    unreachable

sw.bb3.i:
    ; preds = %while.body
    unreachable

exit:
    ; preds = %while.body
    switch i32 undef, label %exit.2 [
        i32 1, label %sw.bb.i17
        i32 2, label %sw.bb3.i20
    ]

sw.bb.i17:
    ; preds = %exit
    %0 = bitcast %struct.0* %lsr.iv to i32*
    %1 = load i32, i32* %0, align 4
    unreachable

sw.bb3.i20:
    ; preds = %exit
    %2 = bitcast %struct.0* %lsr.iv to i8**
    %3 = load i8*, i8** %2, align 4
    unreachable

exit.2:
    ; preds = %exit
    %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
    br label %while.body

while.end:
    ; preds = %entry
    ret void
}

```

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

=====

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; RUN: opt -consthoist -S -o - %s | FileCheck %s

target datalayout = "e-m:e-p:32:32-i64:64-v128:64:128-a:0:32-n32-S64"

target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.

; Also check that a constant used as value to be stored rather than

; pointer in a store instruction is hoisted.

; CHECK: foo_i8

; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32

; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32

; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32

; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32

; CHECK: %0 = inttoptr i32 %[[C2]] to i8*

; CHECK-NEXT: %1 = load volatile i8, i8* %0

; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4

; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*

; CHECK-NEXT: %3 = load volatile i8, i8* %2

; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31

; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*

; CHECK-NEXT: %5 = load volatile i8, i8*

%4

; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*

; CHECK-NEXT: %7 = load volatile i8, i8* %6

; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7

; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*

; CHECK-NEXT: %9 = load volatile i8, i8* %8

; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*

; CHECK-NEXT: store i8 %9, i8* %10

; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31

; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*

; CHECK-NEXT: store i8 %7, i8* %11

; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*

; CHECK-NEXT: store i8 %5, i8* %12

; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7

; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*

; CHECK-NEXT: store i8 %3, i8* %13

; CHECK-NEXT: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80

; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*

; CHECK-NEXT: store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {

entry:

%0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)

%1 = load volatile


```

i8, i8* inttoptr (i32 805874692 to i8*)
%2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
%3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
%4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

```

```

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32
%[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

```

```

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774
to i16*), align 2
ret void
}

```

```

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32

```

```

; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]],
12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

```

```

define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

```

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```
static_library("BSD-Archive") {
    output_name = "lldbPluginObjectContainerBSDArchive"
    configs += [ "../llvm/utils/gn/build:lldb_code" ]
    deps = [
        "../lldb/source/Core",
        "../lldb/source/Host",
        "../lldb/source/Symbol",
        "../llvm/lib/Support",
    ]
    sources = [ "ObjectContainerBSDArchive.cpp" ]
}
```

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```
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```

```
use crate::AsyncResult;
```

```

use crate::Cancellable;
use glib::object::Cast;
use glib::object::IsA;
use glib::signal::connect_raw;
use glib::signal::SignalHandlerId;
use glib::translate::*;
use std::boxed::Box as Box_;
use std::fmt;
use std::mem::transmute;
use std::pin::Pin;
use std::ptr;

glib::wrapper! {
    #[doc(alias = "GPermission")]
    pub struct Permission(Object<ffi::GPermission, ffi::GPermissionClass>);

    match fn {
        type_ => || ffi::g_permission_get_type(),
    }
}

pub const NONE_PERMISSION: Option<&Permission> = None;

pub trait PermissionExt: 'static {
    #[doc(alias = "g_permission_acquire")]
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

    #[doc(alias = "g_permission_acquire_async")]
    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(&self, cancellable: Option<&P>, callback: Q,);

    fn acquire_async_future(
        &self,
    ) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

    #[doc(alias = "g_permission_get_allowed")]
    #[doc(alias = "get_allowed")]
    fn is_allowed(&self) -> bool;

    #[doc(alias = "g_permission_get_can_acquire")]
    #[doc(alias = "get_can_acquire")]
    fn can_acquire(&self) -> bool;

    #[doc(alias = "g_permission_get_can_release")]
    #[doc(alias = "get_can_release")]

```



```

fn can_release(&self) -> bool;

#[doc(alias = "g_permission_impl_update")]
fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool);

#[doc(alias = "g_permission_release")]
fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

#[doc(alias = "g_permission_release_async")]
fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
);

fn release_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

#[doc(alias = "allowed")]
fn connect_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

#[doc(alias = "can-acquire")]
fn connect_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

#[doc(alias = "can-release")]
fn connect_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;
}

impl<O: IsA<Permission>> PermissionExt for O {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
        unsafe {
            let mut error = ptr::null_mut();
            let _ = ffi::g_permission_acquire(
                self.as_ref().to_glib_none().0,
                cancellable.map(|p| p.as_ref()).to_glib_none().0,
                &mut error,
            );
            if
error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            }
        }
    }
}

```

```

fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box_<Q> = Box_::new(callback);
    unsafe extern "C" fn acquire_async_trampoline<
        Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
    >(
        _source_object: *mut glib::gobject_ffi::GObject,
        res: *mut crate::ffi::GAsyncResult,
        user_data: glib::ffi::gpointer,
    ) {
        let mut error = ptr::null_mut();
        let _ = ffi::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        };
        let callback: Box_<Q> = Box_::from_raw(user_data
as *mut _);
        callback(result);
    }
    let callback = acquire_async_trampoline::<Q>;
    unsafe {
        ffi::g_permission_acquire_async(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            Some(callback),
            Box_::into_raw(user_data) as *mut _,
        );
    }
}

fn acquire_async_future(
    &self,
) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box_::pin(crate::GioFuture::new(
        self,
        move |obj, cancellable, send| {
            obj.acquire_async(Some(cancellable), move |res| {
                send.resolve(res);
            });
        },
    ))
}

```

```

fn is_allowed(&self) -> bool {
    unsafe {
        from_glib(ffi::g_permission_get_allowed(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn can_acquire(&self)
-> bool {
    unsafe {
        from_glib(ffi::g_permission_get_can_acquire(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn can_release(&self) -> bool {
    unsafe {
        from_glib(ffi::g_permission_get_can_release(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool) {
    unsafe {
        ffi::g_permission_impl_update(
            self.as_ref().to_glib_none().0,
            allowed.into_glib(),
            can_acquire.into_glib(),
            can_release.into_glib(),
        );
    }
}

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
    unsafe {
        let mut error = ptr::null_mut();
        let _ = ffi::g_permission_release(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            &mut error,
        );
        if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        }
    }
}

```

```

    }
  }
}

fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box_<Q> = Box_::new(callback);
    unsafe extern "C" fn release_async_trampoline<
        Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
    >(
        _source_object: *mut glib::gobject_ffi::GObject,
        res: *mut crate::ffi::GAsyncResult,
        user_data: glib::ffi::gpointer,
    ) {
        let mut error = ptr::null_mut();
        let _ = ffi::g_permission_release_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        };
        let callback: Box_<Q> = Box_::from_raw(user_data as *mut _);
        callback(result);
    }
    let callback = release_async_trampoline::<Q>;
    unsafe {
        ffi::g_permission_release_async(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            Some(callback),
            Box_::into_raw(user_data) as *mut _,
        );
    }
}

fn release_async_future(
    &self,
) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box_::pin(crate::GioFuture::new(
        self,
        move |obj, cancellable, send| {
            obj.release_async(Some(cancellable), move |res| {
                send.resolve(res);
            });
        },
    ),
}

```

```

    ))
}

fn connect_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern
"C" fn notify_allowed_trampoline<P: IsA<Permission>, F: Fn(&P) + 'static>(
    this: *mut ffi::GPermission,
    _param_spec: glib::ffi::gpointer,
    f: glib::ffi::gpointer,
    ) {
    let f: &F = &*(f as *const F);
    f(Permission::from_glib_borrow(this).unsafe_cast_ref())
    }
    unsafe {
    let f: Box_<F> = Box_::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::allowed\0".as_ptr() as *const _,
        Some(transmute::<_, unsafe extern "C" fn()>(
            notify_allowed_trampoline::<Self, F> as *const (),
        )),
        Box_::into_raw(f),
    )
    }
}

fn connect_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_can_acquire_trampoline<
    P: IsA<Permission>,
    F: Fn(&P) + 'static,
    >(<
    this: *mut ffi::GPermission,
    _param_spec: glib::ffi::gpointer,
    f: glib::ffi::gpointer,
    ) {
    let f: &F = &*(f as *const F);
    f(Permission::from_glib_borrow(this).unsafe_cast_ref())
    }
    unsafe {
    let f: Box_<F> = Box_::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::can-acquire\0".as_ptr() as *const _,
        Some(transmute::<_, unsafe extern "C" fn()>(
            notify_can_acquire_trampoline::<Self, F> as *const (),
        )),
        Box_::into_raw(f),
    )
}

```

```

    }
}

fn connect_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_can_release_trampoline<
        P: IsA<Permission>,
        F: Fn(&P) + 'static,
    >(
        this: *mut ffi::GPermission,
        _param_spec: glib::ffi::gpointer,
        f: glib::ffi::gpointer,
    ) {

        let f: &F = &*(f as *const F);
        f(Permission::from_glib_borrow(this).unsafe_cast_ref())
    }
    unsafe {
        let f: Box_<F> = Box_::new(f);
        connect_raw(
            self.as_ptr() as *mut _,
            b"notify::can-release\0".as_ptr() as *const _,
            Some(transmute::<_, unsafe extern "C" fn>(>(
                notify_can_release_trampoline::<Self, F> as *const (),
            )),
            Box_::into_raw(f),
        )
    }
}
}
}

impl fmt::Display for Permission {
    fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
        f.write_str("Permission")
    }
}
}

```

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1.292 gcc-11 11.4.0-1ubuntu1~22.04

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

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```
<!-- Creator   : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
<!-- site wide top running header menu -->

<ul id="overview">
  <li class="home">
    HOME_HREF
  </li>
  <li class="release">
    11_HREF
  </li>

  <li>
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
```

```
<a href="community.html" title="Community">Community</a>
</li>
</ul>
```

```
<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">

    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>
```

```
<!-- homepage tab menu -->
```

```
<div id="tabmenu">
  <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
  </ul>
</div>
</div>
```

```
<div id="page">
<div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions. Copies of the
  licences can be found on the
  <a href="http://www.gnu.org/licenses">GNU</a>
web site.</p>
</div>
</div>
</body>
</html>
```

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Any

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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-11 source package is taken from the SVN gcc-11-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-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11	gcc-11-doc	
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	
Objective C	gobjc-11	libobjc4	
Objective C++	gobjc++-11		
Modula-2	gm2-11	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++6-11-dbg	libstdc++6-11-pic	
D	libphobos-11-dev			

Additional packages include:

All languages:

libgcc1,	
libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-11-base	Base files common to all compilers
gcc-11-soft-float	Software floating point (ARM only)
gcc-11-source	The sources with patches

Ada:

libgnat-util11-dev, libgnat-util11 GNAT version library

C:

cpp-11, cpp-11-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
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- libitm
- libssp
- libstdc++-v3

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University of Illinois at Urbana-Champaign

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libquadmath/math:

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coshq.c, erfq.c, jnq.c, lgammaq.c, powq.c, roundq.c:

Changes for 128-bit __float128 are

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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,
sinq_kernel.c, truncq.c:

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isinfq.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-11	GNU D Compiler
libphobos-11-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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The Phobos standard runtime library:
- d/phobos/*

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gcc/m2/gm2-libs:

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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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gcc/testsuite/gm2/:

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libgm2:

libgm2/libiso/:

libgm2/libpim/:

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libgm2/libcor/:

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newlib-X.Y.Z/:

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DRuntime: Runtime Library for the D Programming Language

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Version 3, 29 June 2007

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[applies only to hppa*-*-pro* targets]

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1.293 cpp 11.4.0-1ubuntu1~22.04

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Any

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

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```
<!-- Creator   : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>
```

```
<body>
```

```
<!-- site wide top running header menu -->
```

```
<ul id="overview">
  <li class="home">
    HOME_HREF
  </li>
  <li class="release">
    12_HREF
  </li>

  <li>
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>
```

```
<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">

  </span>
  <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
  </span>
</h1>

<!-- homepage tab menu -->

<div id="tabmenu">
  <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
  </ul>
</div>
</div>

<div id="page">
<div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions. Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
web site.</p>
</div>
</div>
</body>
</html>

```

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1.294 mesa-amber 21.3.9-0ubuntu1~22.04.1

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```

```
libfreedreno_layout = static_library(
  'freedreno_layout',
  [
    'fd5_layout.c',
    'fd6_format_table.c',
    'fd6_layout.c',
    'freedreno_layout.c',
    freedreno_xml_header_files,
  ],
  include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
  c_args : [no_override_init_args],
  gnu_symbol_visibility : 'hidden',
  dependencies : [idep_nir_headers, idep_mesautil],
  build_by_default : false,
)
```

```
foreach major : ['5', '6']
  test(
    'fd' + major + '_layout',
    executable(
      'fd' + major + '_layout',
      [
        'fd_layout_test.c',
        'fd' + major + '_layout_test.c',
        freedreno_xml_header_files,
      ],
      link_with: libfreedreno_layout,
      dependencies : idep_mesautil,
      include_directories: [
        inc_include,
        inc_src,
        inc_mapi,
        inc_mesa,
        inc_gallium,
        inc_gallium_aux,
        inc_freedreno],
    ),
    suite : ['freedreno'],
  )
endforeach
```

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1.295 mesa 21.3.9-0ubuntu1~22.04.1

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```
libfreedreno_layout = static_library(  
    'freedreno_layout',  
    [  
        'fd5_layout.c',  
        'fd6_format_table.c',  
        'fd6_layout.c',  
        'freedreno_layout.c',  
        freedreno_xml_header_files,  
    ],  
    include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],  
    c_args : [no_override_init_args],  
    gnu_symbol_visibility : 'hidden',  
    dependencies : [idep_nir_headers, idep_mesautl],  
    build_by_default : false,  
)  
  
foreach major : ['5', '6']  
    test(  
        'fd' + major + '_layout',  
        executable(  

```

```
'fd' + major + '_layout',
[
  'fd_layout_test.c',
  'fd' + major + '_layout_test.c',
  freedreno_xml_header_files,
],
link_with: libfreedreno_layout,
dependencies : iddep_mesautil,
include_directories: [
  inc_include,
  inc_src,
  inc_mapi,
  inc_mesa,
  inc_gallium,
  inc_gallium_aux,
  inc_freedreno],
),
suite : ['freedreno'],
)
endforeach
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1.296 libunwind 1.3.2-build2.1

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1.297 fs-minipass 3.0.3

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1.298 llvm 15.0.7-0ubuntu0.22.04.3

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Files: llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h

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Files: llvm/utils/unittest/googlemock/*

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Files: clang/lib/Headers/cuda_wrappers/*

clang/lib/Headers/avx512vlp2intersectintrin.h

clang/lib/Headers/avx512vp2intersectintrin.h

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1.299 json-c 0.15-3~ubuntu1.22.04.2

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1.300 file 5.41-3ubuntu0.1

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1.301 libwebp 1.2.2-2ubuntu0.22.04.2

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1.302 isexe 3.1.1

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1.303 which 4.0.0

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1.304 libx11 1.7.5-1ubuntu0.3

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1.305 libxpm 3.5.12-1ubuntu0.22.04.2

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1.307 ip-regex 5.0.0

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1.308 procps 3.3.17-6ubuntu2.1

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1.310 python 3.10.12

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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

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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)
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2.0.1	2.0+1.6.1	2001	PSF	yes
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2.1.2	2.1.1	2002	PSF	yes
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2.2 and above	2.1.1	2001-now		

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1.311 perl 5.34.0-3ubuntu1.3

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?RCS:

?MAKE:i_sysstatfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysstatfs:

?S: This variable conditionally defines the I_SYSSTATFS symbol,

?S: and indicates whether a C program should include <sys/statfs.h>.

?S:.

?C:I_SYS_STATFS:

?C: This symbol, if defined, indicates that <sys/statfs.h> exists.

?C:.

?H:#\$i_sysstatfs I_SYS_STATFS /**/

?H:.

?LINT:set i_sysstatfs

: see if this is a sys/statfs.h system

set sys/statfs.h i_sysstatfs

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatfs.U

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?RCS:

?MAKE:d_fmin: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fmin:

?S: This variable conditionally defines the HAS_FMIN symbol, which

?S: indicates to the C program that the fmin() routine is available.

?S:.

?C:HAS_FMIN:

?C: This symbol, if defined, indicates that the fmin routine is

?C: available to do the minimum function.

?C:.

?H:#\$d_fmin HAS_FMIN /**/

?H:.

?LINT:set d_fmin

: see if fmin exists

set fmin d_fmin

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmin.U

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?RCS:

?MAKE:d_fma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fma:

?S: This variable conditionally defines the HAS_FMA symbol, which

?S: indicates to the C program that the fma() routine is available.

?S:.

?C:HAS_FMA:

?C: This symbol, if defined, indicates that the fma routine is

?C: available to do the multiply-add function.

?C:.

?H:#\$d_fma HAS_FMA /**/

?H:.

?LINT:set d_fma

: see if fma exists

set fma d_fma

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fma.U

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* Feel free to modify any of this as the need arises. Note, however,

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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/metaconfig.html

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```
?RCS: $Id: i_sysvfs.U,v $
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?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysvfs.U

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```
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?RCS:
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_ftello HAS_FTELLO /**/
```



```
?H:
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac
```

Found in path(s):

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?RCS:

?MAKE:d_finitel: Inlibc

?MAKE: -pick add \$@ %<

?S:d_finitel:

?S: This variable conditionally defines the HAS_FINITEL symbol, which

?S: indicates to the C program that the finitel() routine is available.

?S:.

?C:HAS_FINITEL:

?C: This symbol, if defined, indicates that the finitel routine is

?C: available to check whether a long double is finite

?C: (non-infinity non-NaN).

?C:.

?H:#\$d_finitel HAS_FINITEL /**/

?H:.

?LINT:set d_finitel

: see if finitel exists

set finitel d_finitel

eval \$inlibc

Found in path(s):

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?RCS:
?MAKE:d_hasmntopt: Inlibc
?MAKE: -pick add \$@ %<
?S:d_hasmntopt:
?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which
?S: indicates to the C program that the hasmntopt() routine is available
?S: to query the mount options of file systems.
?S:.
?C:HAS_HASMNTOPT:
?C: This symbol, if defined, indicates that the hasmntopt routine is
?C: available to query the mount options of file systems.
?C:.
?H:#\$d_hasmntopt HAS_HASMNTOPT /**/
?H:.
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hasmntopt.U
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?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#\$i_socks I_SOCKS /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_socks.U

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?RCS:

?MAKE:d_nan: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nan:

?S: This variable conditionally defines HAS_NAN if nan() is

?S: available to generate NaN.

?S:.

?C:HAS_NAN:

?C: This symbol, if defined, indicates that the nan routine is

?C: available to generate NaN.

?C:.

?H:#\$d_nan HAS_NAN /**/

?H:.

?LINT:set d_nan

: see if nan exists

set nan d_nan

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nan.U

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?RCS:

?MAKE:d_localeconv_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d_localeconv_l:

?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which

?S: indicates to the C program that the localeconv_l() routine is available.

?S:.

?C:HAS_LOCALECONV_L:

?C: This symbol, if defined, indicates that the localeconv_l routine is

?C: available to query certain information about a locale.

?C:.

?H:#\$d_localeconv_l HAS_LOCALECONV_L /**/

?H:.

?LINT:set d_localeconv_l

: see if localeconv_l exists

```
set localeconv_1 d_localeconv_1
eval $inlibc
```

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?RCS:

?MAKE:d_scalbnl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_scalbnl:

?S: This variable conditionally defines the HAS_SCALBNL symbol, which

?S: indicates to the C program that the scalbnl() routine is available.

?S: If ilogbl is also present we can emulate frexpl.

?S:.

?C:HAS_SCALBNL:

?C: This symbol, if defined, indicates that the scalbnl routine is

?C: available. If ilogbl is also present we can emulate frexpl.

?C:.

?H:#\$d_scalbnl HAS_SCALBNL /**/

?H:.

?LINT:set d_scalbnl

: see if scalbnl exists

set scalbnl d_scalbnl

eval \$inlibc

Found in path(s):

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?RCS:

?MAKE:i_fp: Inhdr

?MAKE: -pick add \$@ %<

?S:i_fp:

?S: This variable conditionally defines the I_FP symbol, and indicates

?S: whether a C program should include <fp.h>.

?S:.
 ?C:I_FP:
 ?C: This symbol, if defined, indicates that <fp.h> exists and
 ?C: should be included.
 ?C:.
 ?H:#\$i_fp I_FP /**/
 ?H:.
 ?LINT:set i_fp
 : see if this is a fp.h system
 set fp.h i_fp
 eval \$inhdr

Found in path(s):
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 ?RCS:
 ?MAKE:d_ilogb: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_ilogb:
 ?S: This variable conditionally defines the HAS_ILOGB symbol, which
 ?S: indicates to the C program that the ilogb() routine is available
 ?S: for extracting the exponent of double x as a signed integer.
 ?S:.
 ?C:HAS_ILOGB:
 ?C: This symbol, if defined, indicates that the ilogb routine is
 ?C: available to get integer exponent of a floating-point value.
 ?C:.
 ?H:#\$d_ilogb HAS_ILOGB /**/
 ?H:.
 ?LINT:set d_ilogb
 : see if ilogb exists
 set ilogb d_ilogb
 eval \$inlibc

Found in path(s):
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 ?RCS:
 ?MAKE:d_hypot: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_hypot:
 ?S: This variable conditionally defines HAS_HYPOT if hypot is available

?S: for numerically stable hypotenuse function.

?S:.

?C:HAS_HYPOT:

?C: This symbol, if defined, indicates that the hypot routine is

?C: available to do the hypotenuse function.

?C:.

?H:#\$d_hypot HAS_HYPOT /**/

?H:.

?LINT:set d_hypot

: see if hypot exists

set hypot d_hypot

eval \$inlibc

Found in path(s):

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?RCS:

?MAKE:d_getfsstat : Inlibc

?MAKE: -pick add \$@ %<

?S:d_getfsstat:

?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which

?S: indicates to the C program that the getfsstat() routine is available.

?S:.

?C:HAS_GETFSSTAT:

?C: This symbol, if defined, indicates that the getfsstat routine is

?C: available to stat filesystems in bulk.

?C:.

?H:#\$d_getfsstat HAS_GETFSSTAT /**/

?H:.

?LINT:set d_getfsstat

: see if getfsstat exists

set getfsstat d_getfsstat

eval \$inlibc

Found in path(s):

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 ?RCS:
 ?MAKE:d_unsetenv: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_unsetenv:
 ?S: This variable conditionally defines the HAS_UNSETENV symbol, which
 ?S: indicates to the C program that the unsetenv () routine is available.
 ?S:.
 ?C:HAS_UNSETENV:
 ?C: This symbol, if defined, indicates that the unsetenv () routine is
 ?C: available for use.
 ?C:.
 ?H:#\$d_unsetenv HAS_UNSETENV /**/
 ?H:.
 ?LINT:set d_unsetenv
 : see if unsetenv exists
 set unsetenv d_unsetenv
 eval \$inlibc

Found in path(s):
 * /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unsetenv.U
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 ?RCS:
 ?MAKE:d_remainder: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_remainder:
 ?S: This variable conditionally defines the HAS_REMAINDER symbol, which
 ?S: indicates to the C program that the remainder() routine is available.
 ?S:.
 ?C:HAS_REMAINDER:
 ?C: This symbol, if defined, indicates that the remainder routine is
 ?C: available to return the floating-point remainder.
 ?C:.
 ?H:#\$d_remainder HAS_REMAINDER /**/
 ?H:.
 ?LINT:set d_remainder
 : see if remainder exists
 set remainder d_remainder
 eval \$inlibc

Found in path(s):
 * /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remainder.U

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```
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?RCS:
?MAKE:d_getmnt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmnt:
?S: This variable conditionally defines the HAS_GETMNT symbol, which
?S: indicates to the C program that the getmnt() routine is available
?S: to retrieve one or more mount info blocks by filename.
?S:.
?C:HAS_GETMNT:
?C: This symbol, if defined, indicates that the getmnt routine is
?C: available to get filesystem mount info by filename.
?C:.
?H:#$d_getmnt HAS_GETMNT /**/
?H:.
?LINT:set d_getmnt
: see if getmnt exists
set getmnt d_getmnt
eval $inlibc
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getmnt.U

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

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atanh: Inlibc
?MAKE: -pick add $@ %<
?S:d_atanh:
?S: This variable conditionally defines the HAS_ATANH symbol, which
?S: indicates to the C program that the atanh() routine is available.
?S:.
?C:HAS_ATANH:
?C: This symbol, if defined, indicates that the atanh routine is
?C: available to do the inverse hyperbolic tangent function.
?C:.
?H:#$d_atanh HAS_ATANH /**/
?H:.
?LINT:set d_atanh
: see if atanh exists
```



```
set atanh d_atanh
eval $inlibc
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_atanh.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_frexp: Inlibc

?MAKE: -pick add \$@ %<

?S:d_frexp:

?S: This variable conditionally defines the HAS_FREXP symbol, which

?S: indicates to the C program that the frexp() routine is available.

?S:.

?C:HAS_FREXP:

?C: This symbol, if defined, indicates that the frexp routine is

?C: available to break a long double floating-point number into

?C: a normalized fraction and an integral power of 2.

?C:.

?H:#\$d_frexp HAS_FREXP /**/

?H:.

?LINT:set d_frexp

: see if frexp exists

set frexp d_frexp

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_frexp.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_isfinite: Inlibc

?MAKE: -pick add \$@ %<

?S:d_isfinite:

?S: This variable conditionally defines the HAS_ISFINITE symbol, which

?S: indicates to the C program that the isfinite() routine is available.

?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#\$d_isfinitel HAS_ISFINITEL /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
eval \$inlibc

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isfinitel.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add \$@ %<
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#\$d_getaddrinfo HAS_GETADDRINFO /**/
?H:.
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
set getaddrinfo d_getaddrinfo
eval \$inlibc

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getaddrinfo.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi
 ?RCS:
 ?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_accessx: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_accessx:
 ?S: This variable conditionally defines the HAS_ACCESSX symbol, which
 ?S: indicates to the C program that the accessx() routine is available.
 ?S:.
 ?C:HAS_ACCESSX :
 ?C: This symbol, if defined, indicates that the accessx routine is
 ?C: available to do extended access checks.
 ?C:.
 ?H:#\$d_accessx HAS_ACCESSX /**/
 ?H:.
 ?LINT:set d_accessx
 : see if accessx exists
 set accessx d_accessx
 eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_accessx.U

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?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_llrint: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_llrint:
 ?S: This variable conditionally defines the HAS_LLRLINT symbol, which
 ?S: indicates to the C program that the llrint() routine is available
 ?S: to return the long long value closest to a double (according
 ?S: to the current rounding mode).
 ?S:.
 ?C:HAS_LLRLINT:
 ?C: This symbol, if defined, indicates that the llrint routine is
 ?C: available to return the long long value closest to a double
 ?C: (according to the current rounding mode).
 ?C:.
 ?H:#\$d_llrint HAS_LLRLINT /**/
 ?H:.
 ?LINT:set d_llrint
 : see if llrint exists
 set llrint d_llrint
 eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llrint.U

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

?RCS: \$Id: i_sunmath.U,v \$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_sunmath: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sunmath:

?S: This variable conditionally defines the I_SUNMATH symbol, and indicates

?S: whether a C program should include <sunmath.h>.

?S:.

?C:I_SUNMATH:

?C: This symbol, if defined, indicates that <sunmath.h> exists and

?C: should be included.

?C:.

?H:#\$i_sunmath I_SUNMATH /**/

?H:.

?LINT:set i_sunmath

: see if this is a sunmath.h system

set sunmath.h i_sunmath

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sunmath.U

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?RCS:

?MAKE:d_acosh: Inlibc

?MAKE: -pick add \$@ %<

?S:d_acosh:

?S: This variable conditionally defines the HAS_ACOSH symbol, which

?S: indicates to the C program that the acosh() routine is available.

?S:.

?C:HAS_ACOSH:

?C: This symbol, if defined, indicates that the acosh routine is

?C: available to do the inverse hyperbolic cosine function.

?C:.

?H:#\$d_acosh HAS_ACOSH /**/

?H:.

```
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_acosh.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: i_mntent.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
set mntent.h i_mntent
eval $inhdr
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_mntent.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: i_sysmount.U,v $
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
```

?S: and indicates whether a C program should include <sys/mount.h>.

?S:.

?C:I_SYS_MOUNT:

?C: This symbol, if defined, indicates that <sys/mount.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysmount I_SYS_MOUNT /**/

?H:.

?LINT:set i_sysmount

: see if this is a sys/mount.h system

set sys/mount.h i_sysmount

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmount.U

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

?RCS: \$Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Null.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:10 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit ends up producing shell code to set all variables to ". This

?X: probably isn't necessary, but I'm paranoid. About certain things.

?X:

?MAKE:Null: Head

?MAKE: -pick add.Null \$@ %<

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Null.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_exp2: Inlibc

?MAKE: -pick add \$@ %<

?S:d_exp2:

?S: This variable conditionally defines the HAS_EXP2 symbol, which

?S: indicates to the C program that the exp2() routine is available.

?S:.

?C:HAS_EXP2:

?C: This symbol, if defined, indicates that the exp2 routine is

?C: available to do the 2**x function.

?C:.

?H:#\$d_exp2 HAS_EXP2 /**/

?H:.

?LINT:set d_exp2

: see if exp2 exists

set exp2 d_exp2

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_exp2.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2019 Karl Williamson

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_towlower: Inlibc

?MAKE: -pick add \$@ %<

?S:d_towlower:

?S: This variable conditionally defines the HAS_TOWLOWER symbol, which

?S: indicates to the C program that the tolower() routine is available.

?S:.

?C:HAS_TOWLOWER:

?C: This symbol, if defined, indicates that the tolower () routine is

?C: available to do case conversion.

?C:.

?H:#\$d_towlower HAS_TOWLOWER /**/

?H:.

?LINT:set d_towlower

: see if tolower exists

set tolower d_towlower

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towlower.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi
 ?RCS:
 ?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_unordered: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_unordered:
 ?S: This variable conditionally defines the HAS_UNORDERED symbol, which
 ?S: indicates to the C program that the unordered() routine is available.
 ?S:.
 ?C:HAS_UNORDERED:
 ?C: This symbol, if defined, indicates that the unordered routine is
 ?C: available to check whether two doubles are unordered
 ?C: (effectively: whether either of them is NaN)
 ?C:.
 ?H:#\$d_unordered HAS_UNORDERED /**/
 ?H:.
 ?LINT:set d_unordered
 : see if unordered exists
 set unordered d_unordered
 eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unordered.U

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

?RCS: \$Id: i_sysuio.U,v \$
 ?RCS:
 ?RCS: Copyright (c) 1998 Jarkko Hietaniemi
 ?RCS:
 ?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:i_sysuio: Inhdr
 ?MAKE: -pick add \$@ %<
 ?S:i_sysuio:
 ?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
 ?S: whether a C program should include <sys/uio.h>.
 ?S:.
 ?C:I_SYSUIO:
 ?C: This symbol, if defined, indicates that <sys/uio.h> exists and
 ?C: should be included.
 ?C:.
 ?H:#\$i_sysuio I_SYSUIO /**/
 ?H:.
 ?LINT:set i_sysuio
 : see if this is a sys/uio.h system


```
set sys/uio.h i_sysuio
eval $inhdr
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_sysuio.U

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?RCS:

?MAKE:d_llroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llroundl:

?S: This variable conditionally defines the HAS_LLROUNDL symbol, which

?S: indicates to the C program that the llroundl() routine is available

?S: to return the long long value nearest to x away from zero.

?S:.

?C:HAS_LLROUNDL:

?C: This symbol, if defined, indicates that the llroundl routine is

?C: available to return the nearest long long value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d_llroundl HAS_LLROUNDL /**/

?H:.

?LINT:set d_llroundl

: see if llroundl exists

set llroundl d_llroundl

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llroundl.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_logb: Inlibc

?MAKE: -pick add \$@ %<

?S:d_logb:

?S: This variable conditionally defines the HAS_LOGB symbol, which

?S: indicates to the C program that the logb() routine is available

?S: to extract the exponent of x.

?S:.

?C:HAS_LOGB:

?C: This symbol, if defined, indicates that the logb routine is

?C: available to do the logb function.

?C:.

?H:#\$d_logb HAS_LOGB /**/

?H:.

?LINT:set d_logb

: see if logb exists

set logb d_logb

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_logb.U

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

?RCS: \$Id: i_sysstatvfs.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_sysstatvfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysstatvfs:

?S: This variable conditionally defines the I_SYSSTATVFS symbol,

?S: and indicates whether a C program should include <sys/statvfs.h>.

?S:.

?C:I_SYS_STATVFS:

?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysstatvfs I_SYS_STATVFS /**/

?H:.

?LINT:set i_sysstatvfs

: see if this is a sys/statvfs.h system

set sys/statvfs.h i_sysstatvfs

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatvfs.U

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

?RCS: \$Id: i_crypt.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_crypt: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_crypt:

?S: This variable conditionally defines the I_CRYPT symbol, and indicates

?S: whether a C program should include <crypt.h>.

?S:.

?C:I_CRYPT:

?C: This symbol, if defined, indicates that <crypt.h> exists and

?C: should be included.

?C:.

?H:#\$i_crypt I_CRYPT /**/

?H:.

?LINT:set i_crypt

: see if this is a crypt.h system

set crypt.h i_crypt

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_crypt.U

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?RCS:

?MAKE:d_fmax: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fmax:

?S: This variable conditionally defines the HAS_FMAX symbol, which

?S: indicates to the C program that the fmax() routine is available.

?S:.

?C:HAS_FMAX:

?C: This symbol, if defined, indicates that the fmax routine is

?C: available to do the maximum function.

?C:.

?H:#\$d_fmax HAS_FMAX /**/

?H:.

?LINT:set d_fmax

: see if fmax exists

set fmax d_fmax

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmax.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_nextafter: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nextafter:

?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()

?S: is available to return the next machine representable double from

?S: x in direction y.

?S:.

?C:HAS_NEXTAFTER:

?C: This symbol, if defined, indicates that the nextafter routine is

?C: available to return the next machine representable double from

?C: x in direction y.

?C:.

?H:#\$d_nextafter HAS_NEXTAFTER /**/

?H:.

?LINT:set d_nextafter

: see if nextafter exists

set nextafter d_nextafter

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nextafter.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_atolf: Inlibc

?MAKE: -pick add \$@ %<

?S:d_atolf:

?S: This variable conditionally defines the HAS_ATOLF symbol, which

?S: indicates to the C program that the atolf() routine is available.

?S:.

?C:HAS_ATOLF:

?C: This symbol, if defined, indicates that the atolf routine is

?C: available to convert strings into long doubles.

?C:.

?H:#\$d_atolf HAS_ATOLF /**/

?H:.

?LINT:set d_atolf

: see if atolf exists

set atolf d_atolf

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atolf.U

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

```
?RCS: $Id: i_ustat.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#$i_ustat I_USTAT /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval $inhdr
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ustat.U

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

```
?RCS: $Id: i_sysmode.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE /**/
?H:.
?LINT:set i_sysmode
```

```
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmode.U

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

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_lrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lrint:

?S: This variable conditionally defines the HAS_LRINT symbol, which

?S: indicates to the C program that the lrint() routine is available

?S: to return the integral value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LRINT:

?C: This symbol, if defined, indicates that the lrint routine is

?C: available to return the integral value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d_lrint HAS_LRINT /**/

?H:.

?LINT:set d_lrint

: see if lrint exists

set lrint d_lrint

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrint.U

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

/*

* \$Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram \$

*

* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

*

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* as specified in the README file that comes with the distribution.

* You may reuse parts of this distribution only within the terms of

* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.

*

* Original Author: unknown, got this off net.sources

*

* \$Log: getopt.C,v \$
* Revision 3.0.1.1 1994/01/24 13:58:40 ram
* patch16: created
*
*/

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/getopt.C

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2014 Jarkko Hietaniemi & H.Merijn Brand

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_copysign: Inlibc

?MAKE: -pick add \$@ %<

?S:d_copysign:

?S: This variable conditionally defines the HAS_COPYSIGN symbol, which

?S: indicates to the C program that the copysign() routine is available.

?S:.

?C:HAS_COPYSIGN:

?C: This symbol, if defined, indicates that the copysign routine is

?C: available to do the copysign function.

?C:.

?H:#\$d_copysign HAS_COPYSIGN /**/

?H:.

?LINT:set d_copysign

: see if copysign exists

set copysign d_copysign

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysign.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_strnlen: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strnlen:

?S: This variable conditionally defines the HAS_STRNLEN symbol, which

?S: indicates to the C program that the strnlen () routine is available.

?S:.

?C:HAS_STRNLEN:

?C: This symbol, if defined, indicates that the strnlen () routine is

?C: available to check the length of a string up to a maximum.

?C:.

?H:#\$d_strnlen HAS_STRNLEN /**/

?H:.

?LINT:set d_strnlen

: see if strnlen exists

set strnlen d_strnlen

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strnlen.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2008 H.Merijn Brand

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_timegm: Inlibc

?MAKE: -pick add \$@ %<

?S:d_timegm:

?S: This variable conditionally defines the HAS_TIMEGM symbol, which

?S: indicates to the C program that the timegm () routine is available.

?S:.

?C:HAS_TIMEGM:

?C: This symbol, if defined, indicates that the timegm routine is

?C: available to do the opposite of gmtime ()

?C:.

?H:#\$d_timegm HAS_TIMEGM /**/

?H:.

?LINT:set d_timegm

: see if timegm exists

set timegm d_timegm

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_timegm.U

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?RCS:
?MAKE:d_fegetround: Inlibc
?MAKE: -pick add \$@ %<
?S:d_fegetround:
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#\$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
set fegetround d_fegetround
eval \$inlibc

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fegetround.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add \$@ %<
?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#\$d_fstatfs HAS_FSTATFS /**/
?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fstatsf.U

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

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?RCS:

?MAKE:d_lround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lround:

?S: This variable conditionally defines the HAS_LROUND symbol, which

?S: indicates to the C program that the lround() routine is available

?S: to return the integral value nearest to x.

?S:.

?C:HAS_LROUND:

?C: This symbol, if defined, indicates that the lround routine is

?C: available to return the nearest integral value.

?C:.

?H:#\$d_lround HAS_LROUND /**/

?H:.

?LINT:set d_lround

: see if lround exists

set lround d_lround

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lround.U

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

?RCS: \$Id: i_poll.U,v \$

?RCS:

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?RCS:

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?RCS:

?MAKE:i_langinfo: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_langinfo:

?S: This variable conditionally defines the I_LANGINFO symbol,

?S: and indicates whether a C program should include <langinfo.h>.

?S:.

?C:I_LANGINFO:

?C: This symbol, if defined, indicates that <langinfo.h> exists and

?C: should be included.

?C:.

?H:#\$i_langinfo I_LANGINFO /**/

?H:.

?LINT:set i_langinfo

```
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval $inhdr
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_langinfo.U

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?RCS: of the source tree for dist 4.0.

?RCS:

?MAKE:d_dup3: Inlibc

?MAKE: -pick add \$@ %<

?S:d_dup3:

?S: This variable conditionally defines HAS_DUP3 if dup3() is

?S: available to duplicate file descriptors.

?S:.

?C:HAS_DUP3:

?C: This symbol, if defined, indicates that the dup3 routine is

?C: available to duplicate file descriptors.

?C:.

?H:#\$d_dup3 HAS_DUP3 /**/

?H:.

?LINT:set d_dup3

: see if dup3 exists

set dup3 d_dup3

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dup3.U

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?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_atoll: Inlibc

?MAKE: -pick add \$@ %<

?S:d_atoll:

?S: This variable conditionally defines the HAS_ATOLL symbol, which

?S: indicates to the C program that the atoll() routine is available.

?S:.

?C:HAS_ATOLL:

?C: This symbol, if defined, indicates that the atoll routine is

?C: available to convert strings into long longs.

?C:.

?H:#\$d_atoll HAS_ATOLL /**/

?H:.

?LINT:set d_atoll

: see if atoll exists

set atoll d_atoll

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atoll.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_socks5_init: Inlibc

?MAKE: -pick add \$@ %<

?S:d_socks5_init:

?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which

?S: indicates to the C program that the socks5_init() routine is available.

?S:.

?C:HAS_SOCKS5_INIT:

?C: This symbol, if defined, indicates that the socks5_init routine is

?C: available to initialize SOCKS 5.

?C:.

?H:#\$d_socks5_init HAS_SOCKS5_INIT /**/

?H:.

?LINT:set d_socks5_init

: see if socks5_init exists

set socks5_init d_socks5_init

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socks5_init.U

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?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:
 ?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_isinfl: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_isinfl:
 ?S: This variable conditionally defines the HAS_ISINFL symbol, which
 ?S: indicates to the C program that the isinfl() routine is available.
 ?S:.
 ?C:HAS_ISINFL:
 ?C: This symbol, if defined, indicates that the isinfl routine is
 ?C: available to check whether a long double is an infinity.
 ?C:.
 ?H:#\$d_isinfl HAS_ISINFL /**/
 ?H:.
 ?LINT:set d_isinfl
 : see if isinfl exists
 set isinfl d_isinfl
 eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isinfl.U

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Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.tmpl

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?RCS:

?MAKE:d_round: Inlibc

?MAKE: -pick add \$@ %<

?S:d_round:

?S: This variable conditionally defines the HAS_ROUND symbol, which

?S: indicates to the C program that the round() routine is available.

?S:.

?C:HAS_ROUND:

?C: This symbol, if defined, indicates that the round routine is

?C: available to round to nearest integer, away from zero.

?C:.

?H:#\$d_round HAS_ROUND /**/

?H:.

?LINT:set d_round

: see if round exists

```
set round d_round
eval $inlibc
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_round.U

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

?RCS: \$Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: baserev.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:24 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:baserev: Null

?MAKE: -pick wipe \$@ %<

?S:baserev:

?S: The base revision level of this package, from the .package file.

?S:.

: set the base revision

baserev=<BASEREV>

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/baserev.U

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?RCS:

?MAKE:d_lgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lgamma:

?S: This variable conditionally defines the HAS_LGAMMA symbol, which

?S: indicates to the C program that the lgamma() routine is available

?S: for the log gamma function. See also d_tgamma and d_lgamma_r.

?S:.

?C:HAS_LGAMMA:

?C: This symbol, if defined, indicates that the lgamma routine is

?C: available to do the log gamma function. See also HAS_TGAMMA and

?C: HAS_LGAMMA_R.

?C:.

?H:#\$d_lgamma HAS_LGAMMA /**/

?H:.

?LINT:set d_lgamma

: see if lgamma exists

set lgamma d_lgamma

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_sqrtl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_sqrtl:

?S: This variable conditionally defines the HAS_SQRTL symbol, which

?S: indicates to the C program that the sqrtl() routine is available.

?S:.

?C:HAS_SQRTL:

?C: This symbol, if defined, indicates that the sqrtl routine is

?C: available to do long double square roots.

?C:.

?H:#\$d_sqrtl HAS_SQRTL /**/

?H:.

?LINT:set d_sqrtl

: see if sqrtl exists

set sqrtl d_sqrtl

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sqrtl.U

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?RCS:

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?RCS:

?MAKE:d_clearenv: Inlibc

?MAKE: -pick add \$@ %<

```
?S:d_clearenv:
?S: This variable conditionally defines the HAS_CLEARENV symbol, which
?S: indicates to the C program that the clearenv () routine is available.
?S:.
?C:HAS_CLEARENV:
?C: This symbol, if defined, indicates that the clearenv () routine is
?C: available for use.
?C:.
?H:#$d_clearenv HAS_CLEARENV /**/
?H:.
?LINT:set d_clearenv
: see if clearenv exists
set clearenv d_clearenv
eval $inlibc
```

Found in path(s):
 * /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_clearenv.U
 No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ieeefp.U,v $
?RCS:
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?RCS:
?MAKE:i_ieeefp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeefp:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieee.h>.
?S:.
?C:I_IEEEFP:
?C: This symbol, if defined, indicates that <ieee.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeefp I_IEEEFP /**/
?H:.
?LINT:set i_ieeefp
: see if this is a ieee.h system
case "$i_ieeefp" in
" ) set ieee.h i_ieeefp
    eval $inhdr
    ;;
esac
```

Found in path(s):
 * /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ieeefp.U

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

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isnanl.U

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

```
?RCS: $Id: i_libutil.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL /**/
```

?H:.

?LINT:set i_libutil

: see if this is a libutil.h system

set libutil.h i_libutil

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_libutil.U

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?RCS:

?MAKE:d_fpgetround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fpgetround:

?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()

?S: is available to get the floating point rounding mode.

?S:.

?C:HAS_FPGETROUND:

?C: This symbol, if defined, indicates that the fpgetround routine is

?C: available to get the floating point rounding mode.

?C:.

?H:#\$d_fpgetround HAS_FPGETROUND /**/

?H:.

?LINT:set d_fpgetround

: see if fpgetround exists

set fpgetround d_fpgetround

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpgetround.U

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?RCS:

?MAKE:d_lrintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lrintl:

?S: This variable conditionally defines the HAS_LRINTL symbol, which

?S: indicates to the C program that the lrintl() routine is available

?S: to return the integral value closest to a long double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LRINTL:

?C: This symbol, if defined, indicates that the lrintl routine is

?C: available to return the integral value closest to a long double

?C: (according to the current rounding mode).

?C:.

?H:#\$d_lrintl HAS_LRINTL /**/

?H:.

?LINT:set d_lrintl

: see if lrintl exists

set lrintl d_lrintl

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrintl.U

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?RCS:

?MAKE:d_scalbn: Inlibc

?MAKE: -pick add \$@ %<

?S:d_scalbn:

?S: This variable conditionally defines the HAS_SCALBN symbol, which

?S: indicates to the C program that the scalbn() routine is available.

?S:.

?C:HAS_SCALBN:

?C: This symbol, if defined, indicates that the scalbn routine is

?C: available to multiply floating-point number by integral power

?C: of radix.

?C:.

?H:#\$d_scalbn HAS_SCALBN /**/

?H:.

?LINT:set d_scalbn

: see if scalbn exists

set scalbn d_scalbn

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbn.U

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?RCS: \$Id\$

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?RCS:

?MAKE:d_fsync: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fsync:

?S: This variable conditionally defines the HAS_FSYNC symbol, which

?S: indicates to the C program that the fsync() routine is available.

?S:.

?C:HAS_FSYNC:

?C: This symbol, if defined, indicates that the fsync routine is

?C: available to write a file's modified data and attributes to

?C: permanent storage.

?C:.

?H:#\$d_fsync HAS_FSYNC /**/

?H:.

?LINT:set d_fsync

: see if fsync exists

set fsync d_fsync

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fsync.U

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?RCS:

?MAKE:d_inetntop: Inlibc

?MAKE: -pick add \$@ %<

?S:d_inetntop:

?S: This variable conditionally defines the HAS_INETNTOP symbol,

?S: which indicates to the C program that the inet_ntop() function

?S: is available.

?S:.

?C:HAS_INETNTOP:

?C: This symbol, if defined, indicates that the inet_ntop() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d_inetntop HAS_INETNTOP /**/

?H:.

?LINT:set d_inetntop

: see if inet_ntop exists

set inet_ntop d_inetntop

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetntop.U

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?RCS:

?MAKE:d_fdclose: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fdclose:

?S: This variable conditionally defines the HAS_FDCLOSE symbol, which

?S: indicates to the C program that the fdclose() routine is available.

?S:.

?C:HAS_FDCLOSE:

?C: This symbol, if defined, indicates that the fdclose routine is

?C: available to free a FILE structure without closing the underlying

?C: file descriptor. This function appeared in FreeBSD 10.2.

?C:.

?H:#\$d_fdclose HAS_FDCLOSE /**/

?H:.

?LINT:set d_fdclose

: see if fdclose exists

set fdclose d_fdclose

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdclose.U

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?RCS: \$Id: i_bfd.U,v \$

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?RCS:

?MAKE:i_bfd: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_bfd:

?S: This variable conditionally defines the I_BFD symbol, and

?S: indicates whether a C program can include <bfd.h>.

?S:.

?C:I_BFD:

?C: This symbol, if defined, indicates that <bfd.h> exists and

?C: can be included.

?C:.

?H:#\$i_bfd I_BFD /**/

?H:.

?LINT:set i_bfd

: see if this is a bfd.h system

set bfd.h i_bfd

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_bfd.U

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?RCS: \$Id: i_shadow.U,v \$

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?RCS:

?MAKE:i_shadow: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_shadow:

?S: This variable conditionally defines the I_SHADOW symbol, and indicates

?S: whether a C program should include <shadow.h>.

?S:.

?C:I_SHADOW:

?C: This symbol, if defined, indicates that <shadow.h> exists and

?C: should be included.

?C:.

?H:#\$i_shadow I_SHADOW /**/

?H:.

?LINT:set i_shadow

: see if this is a shadow.h system

set shadow.h i_shadow

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_shadow.U

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?RCS:

?MAKE:d_tgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_tgamma:

?S: This variable conditionally defines the HAS_TGAMMA symbol, which

?S: indicates to the C program that the tgamma() routine is available

?S: for the gamma function. See also d_lgamma.

?S:.

?C:HAS_TGAMMA:

?C: This symbol, if defined, indicates that the tgamma routine is

?C: available to do the gamma function. See also HAS_LGAMMA.

?C:.

?H:#\$d_tgamma HAS_TGAMMA /**/

?H:.

?LINT:set d_tgamma

: see if tgamma exists

set tgamma d_tgamma

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_tgamma.U

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?RCS:

?MAKE:d_inetpton: Inlibc

?MAKE: -pick add \$@ %<

?S:d_inetpton:

?S: This variable conditionally defines the HAS_INETPTON symbol,

?S: which indicates to the C program that the inet_pton() function

?S: is available.

?S:.

?C:HAS_INETPTON:

?C: This symbol, if defined, indicates that the inet_pton() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d_inetpton HAS_INETPTON /**/

?H:.

?LINT:set d_inetpton

: see if inet_pton exists

set inet_pton d_inetpton

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetpton.U

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?RCS:

?MAKE:d_lgamma_r: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lgamma_r:

?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which

?S: indicates to the C program that the lgamma_r() routine is available

?S: for the log gamma function, without using the global signgam variable.

?S:.
 ?C:HAS_LGAMMA_R:
 ?C: This symbol, if defined, indicates that the lgamma_r routine is
 ?C: available to do the log gamma function without using the global
 ?C: signgam variable.
 ?C:.
 ?H:#\$d_lgamma_r HAS_LGAMMA_R /**/
 ?H:.
 ?LINT:set d_lgamma_r
 : see if lgamma_r exists
 set lgamma_r d_lgamma_r
 eval \$inlibc

Found in path(s):
 * /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma_r.U
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 ?RCS:
 ?MAKE:d_readv: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_readv:
 ?S: This variable conditionally defines the HAS_READV symbol, which
 ?S: indicates to the C program that the readv() routine is available.
 ?S:.
 ?C:HAS_READV:
 ?C: This symbol, if defined, indicates that the readv routine is
 ?C: available to do gather reads. You will also need <sys/uio.h>
 ?C: and there I_SYSUIO.
 ?C:.
 ?H:#\$d_readv HAS_READV /**/
 ?H:.
 ?LINT:set d_readv
 : see if readv exists
 set readv d_readv
 eval \$inlibc

Found in path(s):
 * /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_readv.U
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?RCS: \$Id: i_poll.U,v \$
 ?RCS:

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 ?RCS:
 ?MAKE:i_poll: Inhdr Hasfield
 ?MAKE: -pick add \$@ %<
 ?S:i_poll:
 ?S: This variable conditionally defines the I_POLL symbol, and indicates
 ?S: whether a C program should include <poll.h>.
 ?S:.
 ?C:I_POLL:
 ?C: This symbol, if defined, indicates that <poll.h> exists and
 ?C: should be included. (see also HAS_POLL)
 ?C:.
 ?H:#\$i_poll I_POLL /**/
 ?H:.
 ?LINT:set i_poll
 : see if this is a poll.h system
 set poll.h i_poll
 eval \$inhdr

Found in path(s):
 * /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_poll.U
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 ?RCS:
 ?MAKE:d_qgcvt: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_qgcvt:
 ?S: This variable conditionally defines the HAS_QGCVT symbol, which
 ?S: indicates to the C program that the qgcvt() routine is available.
 ?S:.
 ?C:HAS_QGCVT:
 ?C: This symbol, if defined, indicates that the qgcvt routine is
 ?C: available to convert long doubles ("quad doubles") to strings.
 ?C: This is a low-level routine hopefully faster than sprintf.
 ?C:.
 ?H:#\$d_qgcvt HAS_QGCVT /**/
 ?H:.
 ?LINT:set d_qgcvt
 : see if qgcvt exists

```
set qgcvt d_qgcvt
eval $inlibc
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_qgcvt.U

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?RCS:

?MAKE:d_strftime: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strftime:

?S: This variable conditionally defines the HAS_STRFTIME symbol, which

?S: indicates to the C program that the strftime() routine is available.

?S:.

?C:HAS_STRFTIME:

?C: This symbol, if defined, indicates that the strftime routine is

?C: available to do time formatting.

?C:.

?H:#\$d_strftime HAS_STRFTIME /**/

?H:.

?LINT:set d_strftime

: see if strftime exists

set strftime d_strftime

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strftime.U

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?RCS:

?MAKE:d_socketatmark: Inlibc

?MAKE: -pick add \$@ %<

?S:d_socketatmark:

?S: This variable conditionally defines the HAS_SOCKETATMARK symbol, which

?S: indicates to the C program that the socketatmark() routine is available.

?S:.

?C:HAS_SOCKETMARK:

?C: This symbol, if defined, indicates that the socketmark routine is

?C: available to test whether a socket is at the out-of-band mark.

?C:.

?H:#\$d_socketmark HAS_SOCKETMARK /**/

?H:.

?LINT:set d_socketmark

: see if socketmark exists

set socketmark d_socketmark

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socketmark.U

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?RCS:

?MAKE:d_strtod_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strtod_l:

?S: This variable conditionally defines the HAS_STRTOD_L symbol, which

?S: indicates to the C program that the strtod_l() routine is available.

?S:.

?C:HAS_STRTOD_L:

?C: This symbol, if defined, indicates that the strtod_l routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d_strtod_l HAS_STRTOD_L /**/

?H:.

?LINT:set d_strtod_l

: see if strtod_l exists

set strtod_l d_strtod_l

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtod_l.U

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?RCS:

?MAKE:d_setproctitle: Inlibc

?MAKE: -pick add \$@ %<

?S:d_setproctitle:

?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,

?S: which indicates to the C program that the setproctitle() routine

?S: is available.

?S:.

?C:HAS_SETPROCTITLE:

?C: This symbol, if defined, indicates that the setproctitle routine is

?C: available to set process title.

?C:.

?H:#\$d_setproctitle HAS_SETPROCTITLE /**/

?H:.

?LINT:set d_setproctitle

: see if setproctitle exists

set setproctitle d_setproctitle

eval \$inlibc

Found in path(s):

* /perl-5-34-0-origin-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setproctitle.U

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?RCS:

?MAKE:d_sendmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d_sendmsg:

?S: This variable conditionally defines the HAS_SENDMSG symbol, which

?S: indicates to the C program that the sendmsg() routine is available.

?S:.

?C:HAS_SENDMSG:

?C: This symbol, if defined, indicates that the sendmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d_sendmsg HAS_SENDMSG /**/

?H:.

?LINT:set d_sendmsg

: see if sendmsg exists

set sendmsg d_sendmsg

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sendmsg.U

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?RCS:

?MAKE:d_strtold: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strtold:

?S: This variable conditionally defines the HAS_STRTOLD symbol, which

?S: indicates to the C program that the strtold() routine is available.

?S:.

?C:HAS_STRTOLD:

?C: This symbol, if defined, indicates that the strtold routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d_strtold HAS_STRTOLD /**/

?H:.

?LINT:set d_strtold

: see if strtold exists

set strtold d_strtold

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtold.U

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?RCS: \$Id: i_sysutname.U,v \$

?RCS:

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?RCS:

?MAKE:i_sysutname: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysutname:

?S: This variable conditionally defines the I_SYSUTSNAME symbol,

?S: and indicates whether a C program should include <sys/utname.h>.

?S:.

?C:I_SYSUTSNAME:

?C: This symbol, if defined, indicates that <sys/utname.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysutsname I_SYSUTSNAME /**/

?H:.

?LINT:set i_sysutsname

: see if this is a sys/utsname.h system

set sys/utsname.h i_sysutsname

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysutsname.U

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?RCS:

?MAKE:d_rint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_rint:

?S: This variable conditionally defines the HAS_RINT symbol, which

?S: indicates to the C program that the rint() routine is available.

?S:.

?C:HAS_RINT:

?C: This symbol, if defined, indicates that the rint routine is

?C: available to return the nearest integral value to x as double

?C: using the current rounding mode.

?C:.

?H:#\$d_rint HAS_RINT /**/

?H:.

?LINT:set d_rint

: see if rint exists

set rint d_rint

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_rint.U

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Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.mk

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/makegloss

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/bindex

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/fixcpp

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?RCS:
 ?MAKE:d_log1p: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_log1p:
 ?S: This variable conditionally defines the HAS_LOG1P symbol, which
 ?S: indicates to the C program that the logp1() routine is available
 ?S: to compute log(1 + x) for values of x close to zero.
 ?S:.
 ?C:HAS_LOG1P:
 ?C: This symbol, if defined, indicates that the log1p routine is
 ?C: available to do the logarithm of 1 plus argument function.
 ?C:.
 ?H:#\$d_log1p HAS_LOG1P /**/
 ?H:.
 ?LINT:set d_log1p
 : see if log1p exists
 set log1p d_log1p
 eval \$inlibc

Found in path(s):
 * /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log1p.U
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 ?RCS:
 ?MAKE:i_fenv: Inhdr
 ?MAKE: -pick add \$@ %<
 ?S:i_fenv:
 ?S: This variable conditionally defines the I_FENV symbol, which
 ?S: indicates to the C program that <fenv.h> exists and should
 ?S: be included.
 ?S:.
 ?C:I_FENV:
 ?C: This symbol, if defined, indicates to the C program that it should
 ?C: include <fenv.h> to get the floating point environment definitions.
 ?C:.
 ?H:#\$i_fenv I_FENV /**/
 ?H:.
 ?LINT:set i_fenv
 : see if this is a fenv.h system
 set fenv.h i_fenv
 eval \$inhdr

Found in path(s):
 * /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fenv.U
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?RCS:

?MAKE:d_truncl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_truncl:

?S: This variable conditionally defines the HAS_TRUNCL symbol, which

?S: indicates to the C program that the truncl() routine is available

?S: to round long doubles towards zero. If copysignl is also present,

?S: we can emulate modfl.

?S:.

?C:HAS_TRUNCL :

?C: This symbol, if defined, indicates that the truncl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d_truncl HAS_TRUNCL /**/

?H:.

?LINT:set d_truncl

: see if truncl exists

set truncl d_truncl

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_truncl.U

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?RCS: \$Id: i_shadow.U,v \$

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?RCS:

?MAKE:i_prot: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_prot:

?S: This variable conditionally defines the I_PROT symbol, and indicates

?S: whether a C program should include <prot.h>.

?S:.

?C:I_PROT:

?C: This symbol, if defined, indicates that <prot.h> exists and

?C: should be included.

?C:.

?H:#\$i_prot I_PROT /**/

?H:.

?LINT:set i_prot

: see if this is a prot.h system

set prot.h i_prot

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_prot.U

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/*

* \$Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram \$

*

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*

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* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.

*

* \$Log: scandir.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:45 ram

* patch16: created

*

*/

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/scandir.C

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_strtold_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strtold_l:

?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which

?S: indicates to the C program that the strtold_l() routine is available.

?S:.

?C:HAS_STRTOLD_L:

?C: This symbol, if defined, indicates that the strtold_l routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d_strtold_l HAS_STRTOLD_L /**/

?H:.

?LINT:set d_strtold_l

: see if strtold_l exists

```
set strtold_l d_strtold_l
eval $inlibc
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtold_l.U

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?RCS:

?MAKE:i_stdint: Inhdr

?MAKE: -pick add \$@ %<

?S:i_stdint:

?S: This variable conditionally defines the I_STDINT symbol, which

?S: indicates to the C program that <stdint.h> exists and should

?S: be included.

?S:.

?C:I_STDINT:

?C: This symbol, if defined, indicates that <stdint.h> exists and

?C: should be included.

?C:.

?H:#\$i_stdint I_STDINT /**/

?H:.

?LINT:set i_stdint

: see if stdint is available

set stdint.h i_stdint

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_stdint.U

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

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?RCS:

?MAKE:d_expm1: Inlibc

?MAKE: -pick add \$@ %<

?S:d_expm1:

?S: This variable conditionally defines the HAS_EXPM1 symbol, which

?S: indicates to the C program that the expm1() routine is available.

?S:.

?C:HAS_EXPM1:

?C: This symbol, if defined, indicates that the expm1 routine is

?C: available to do the exp(x) - 1 when x is near 1 function.

?C:.

?H:#\$d_expm1 HAS_EXPM1 /**/

?H:.

?LINT:set d_expm1

: see if expm1 exists

set expm1 d_expm1

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_expm1.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fchdir: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fchdir:

?S: This variable conditionally defines the HAS_FCHDIR symbol, which

?S: indicates to the C program that the fchdir() routine is available.

?S:.

?C:HAS_FCHDIR:

?C: This symbol, if defined, indicates that the fchdir routine is

?C: available to change directory using a file descriptor.

?C:.

?H:#\$d_fchdir HAS_FCHDIR /**/

?H:.

?LINT:set d_fchdir

: see if fchdir exists

set fchdir d_fchdir

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fchdir.U

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

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?RCS:

?MAKE:d_nearbyint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nearbyint:

?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()

?S: is available to return the integral value closest to (according to

?S: the current rounding mode) to x.

?S:.

?C:HAS_NEARBYINT:

?C: This symbol, if defined, indicates that the nearbyint routine is

?C: available to return the integral value closest to (according to

?C: the current rounding mode) to x.

?C:.

?H:#\$d_nearbyint HAS_NEARBYINT /**/

?H:.

?LINT:set d_nearbyint

: see if nearbyint exists

set nearbyint d_nearbyint

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nearbyint.U

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

/*

* \$Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram \$

*

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* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.

*

* Original Author: Larry Wall <lwall@netlabs.com>

*

* \$Log: dup2.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:37 ram

* patch16: created

*

*/

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/dup2.C

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_eaccess: Inlibc

?MAKE: -pick add \$@ %<

?S:d_eaccess:

?S: This variable conditionally defines the HAS_EACCESS symbol, which

?S: indicates to the C program that the eaccess() routine is available.

?S:.

?C:HAS_EACCESS :

?C: This symbol, if defined, indicates that the eaccess routine is

?C: available to do extended access checks.

?C:.

?H:#\$d_eaccess HAS_EACCESS /**/

?H:.

?LINT:set d_eaccess

: see if eaccess exists

set eaccess d_eaccess

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_eaccess.U

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

?RCS: \$Id: i_syslog.U,v \$

?RCS:

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?RCS:

?MAKE:i_syslog: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_syslog:

?S: This variable conditionally defines the I_SYSLOG symbol,

?S: and indicates whether a C program should include <syslog.h>.

?S:.

?C:I_SYSLOG:

?C: This symbol, if defined, indicates that <syslog.h> exists and

?C: should be included.

?C:.

?H:#\$i_syslog I_SYSLOG /**/

?H:.

?LINT:set i_syslog

: see if this is a syslog.h system

set syslog.h i_syslog

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_syslog.U

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?RCS: \$Id\$

?RCS:

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 ?RCS:
 ?MAKE:d_getcwd: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_getcwd:
 ?S: This variable conditionally defines the HAS_GETCWD symbol, which
 ?S: indicates to the C program that the getcwd() routine is available
 ?S: to get the current working directory.
 ?S:.
 ?C:HAS_GETCWD :
 ?C: This symbol, if defined, indicates that the getcwd routine is
 ?C: available to get the current working directory.
 ?C:.
 ?H:#\$d_getcwd HAS_GETCWD /**/
 ?H:.
 ?LINT:set d_getcwd
 : see if getcwd exists
 set getcwd d_getcwd
 eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getcwd.U

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

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 ?RCS:
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 ?RCS:
 ?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_getnameinfo: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_getnameinfo:
 ?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
 ?S: which indicates to the C program that the getnameinfo() function
 ?S: is available.
 ?S:.
 ?C:HAS_GETNAMEINFO:
 ?C: This symbol, if defined, indicates that the getnameinfo() function
 ?C: is available for use.
 ?C:.
 ?H:#\$d_getnameinfo HAS_GETNAMEINFO /**/
 ?H:.
 ?LINT:set d_getnameinfo
 : see if getnameinfo exists

```
set getnameinfo d_getnameinfo
eval $inlibc
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getnameinfo.U

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?RCS:

?MAKE:i_quadmath: Inhdr

?MAKE: -pick add \$@ %<

?S:i_quadmath:

?S: This variable conditionally defines I_QUADMATH, which indicates

?S: to the C program that it should include <quadmath.h>.

?S:.

?C:I_QUADMATH:

?C: This symbol, if defined, indicates that <quadmath.h> exists and

?C: should be included.

?C:.

?H:#\$i_quadmath I_QUADMATH /**/

?H:.

?LINT:set i_quadmath

: see if this is a quadmath.h system

set quadmath.h i_quadmath

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_quadmath.U

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

?RCS: \$Id: i_netdb.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_netdb: Inhdr

?MAKE: -pick add \$@ %<

?S:i_netdb:

?S: This variable conditionally defines the I_NETDB symbol, and indicates

?S: whether a C program should include <netdb.h>.

?S:.

?C:I_NETDB:

?C: This symbol, if defined, indicates that <netdb.h> exists and

?C: should be included.

?C:.

?H:#\$i_netdb I_NETDB /**/

?H:.

?LINT:set i_netdb

: see if this is a netdb.h system

set netdb.h i_netdb

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_netdb.U

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

?RCS: \$Id: i_fp_class.U,v \$

?RCS:

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?RCS:

?MAKE:i_fp_class: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_fp_class:

?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates

?S: whether a C program should include <fp_class.h>.

?S:.

?C:I_FP_CLASS:

?C: This symbol, if defined, indicates that <fp_class.h> exists and

?C: should be included.

?C:.

?H:#\$i_fp_class I_FP_CLASS /**/

?H:.

?LINT:set i_fp_class

: see if this is a fp_class.h system

set fp_class.h i_fp_class

eval \$inhdr

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp_class.U

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?RCS:

?MAKE:d_llround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llround:

?S: This variable conditionally defines the HAS_LLROUND symbol, which

?S: indicates to the C program that the llround() routine is available

?S: to return the long long value nearest to x.

?S:.

?C:HAS_LLROUND:

?C: This symbol, if defined, indicates that the llround routine is

?C: available to return the nearest long long value.

?C:.

?H:#\$d_llround HAS_LLROUND /**/

?H:.

?LINT:set d_llround

: see if llround exists

set llround d_llround

eval \$inlibc

Found in path(s):

* /perl-5-34-0-origin-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llround.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d_writev: Inlibc

?MAKE: -pick add \$@ %<

?S:d_writev:

?S: This variable conditionally defines the HAS_WRITEV symbol, which

?S: indicates to the C program that the writev() routine is available.

?S:.

?C:HAS_WRITEV:

?C: This symbol, if defined, indicates that the writev routine is

?C: available to do scatter writes.

?C:.

?H:#\$d_writev HAS_WRITEV /**/

?H:.

?LINT:set d_writev

: see if writev exists

set writev d_writev

eval \$inlibc

Found in path(s):

* /perl-5-34-0-origin-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_writev.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_mkdtemp: Inlibc

?MAKE: -pick add \$@ %<

?S:d_mkdtemp:

?S: This variable conditionally defines the HAS_MKDTEMP symbol, which

?S: indicates to the C program that the mkdtemp() routine is available

?S: to exclusively create a uniquely named temporary directory.

?S:.

?C:HAS_MKDTEMP :

?C: This symbol, if defined, indicates that the mkdtemp routine is

?C: available to exclusively create a uniquely named temporary directory.

?C:.

?H:#\$d_mkdtemp HAS_MKDTEMP /**/

?H:.

?LINT:set d_mkdtemp

: see if mkdtemp exists

set mkdtemp d_mkdtemp

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkdtemp.U

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?RCS:

?MAKE:d_fdim: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fdim:

?S: This variable conditionally defines the HAS_FDIM symbol, which

?S: indicates to the C program that the fdim() routine is available.

?S:.

?C:HAS_FDIM:

?C: This symbol, if defined, indicates that the fdim routine is

?C: available to do the positive difference function.

?C:.

?H:#\$d_fdim HAS_FDIM /**/

?H:.

?LINT:set d_fdim

: see if fdim exists

set fdim d_fdim

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdim.U

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

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_aintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_aintl.U

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

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_asinh: Inlibc
?MAKE: -pick add $@ %<
?S:d_asinh:
?S: This variable conditionally defines the HAS_ASINH symbol, which
?S: indicates to the C program that the asinh() routine is available.
?S:.
?C:HAS_ASINH:
?C: This symbol, if defined, indicates that the asinh routine is
?C: available to do the inverse hyperbolic sine function.
?C:.
?H:#$d_asinh HAS_ASINH /**/
?H:.
?LINT:set d_asinh
: see if asinh exists
```

```
set asinh d_asinh
eval $inlibc
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_asinh.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_recvmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d_recvmsg:

?S: This variable conditionally defines the HAS_RECVMSG symbol, which

?S: indicates to the C program that the recvmsg() routine is available.

?S:.

?C:HAS_RECVMSG:

?C: This symbol, if defined, indicates that the recvmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d_recvmsg HAS_RECVMSG /**/

?H:.

?LINT:set d_recvmsg

: see if recvmsg exists

set recvmsg d_recvmsg

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_recvmsg.U

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

/*

* \$Id: setid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram \$

*

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* of the source tree for dist 4.0.

*

* \$Log: setid.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:47 ram

* patch16: created

*

*/

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/setsid.C

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

?RCS: \$Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Nothing.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: The purpose of this file is to supply an empty target for the private

?X: Makefile built by metaconfig to order the units.

?X:

?MAKE:Nothing: Head

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Nothing.U

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

?RCS: \$Id\$

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?RCS:

?MAKE:d_fseeko: Inlibc longsize

?MAKE: -pick add \$@ %<

?S:d_fseeko:

?S: This variable conditionally defines the HAS_FSEEKO symbol, which

?S: indicates to the C program that the fseeko() routine is available.

?S:.

?C:HAS_FSEEKO:

?C: This symbol, if defined, indicates that the fseeko routine is

?C: available to fseek beyond 32 bits (useful for ILP32 hosts).

```
?C:.
?H:#$d_fseeko HAS_FSEEKO /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fseeko.U
No license file was found, but licenses were detected in source scan.
```

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?RCS:

?MAKE:d_lroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lroundl:

?S: This variable conditionally defines the HAS_LROUNDL symbol, which

?S: indicates to the C program that the lroundl() routine is available

?S: to return the integral value nearest to x away from zero.

?S:.

?C:HAS_LROUNDL:

?C: This symbol, if defined, indicates that the lroundl routine is

?C: available to return the nearest integral value away from zero of

?C: the long double argument value.

?C:.

```
?H:#$d_lroundl HAS_LROUNDL /**/
```

?H:.

```
?LINT:set d_lroundl
```

```
: see if lroundl exists
```

```
set lroundl d_lroundl
```

```
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lroundl.U
No license file was found, but licenses were detected in source scan.
```

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_erfc: Inlibc

?MAKE: -pick add \$@ %<

?S:d_erfc:

?S: This variable conditionally defines the HAS_ERFC symbol, which

?S: indicates to the C program that the erfc() routine is available.

?S:.

?C:HAS_ERFC:

?C: This symbol, if defined, indicates that the erfc routine is

?C: available to do the complementary error function.

?C:.

?H:#\$d_erfc HAS_ERFC /**/

?H:.

?LINT:set d_erfc

: see if erfc exists

set erfc d_erfc

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erfc.U

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?RCS:

?MAKE:d_strtoq: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strtoq:

?S: This variable conditionally defines the HAS_STRTOQ symbol, which

?S: indicates to the C program that the strtouq() routine is available.

?S:.

?C:HAS_STRTOQ:

?C: This symbol, if defined, indicates that the strtouq routine is

?C: available to convert strings to long longs (quads).

?C:.

?H:#\$d_strtoq HAS_STRTOQ /**/

?H:.

?LINT:set d_strtoq

: see if strtouq exists

set strtouq d_strtoq

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtoq.U

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 ?RCS:
 ?MAKE:d_getitimer: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_getitimer:
 ?S: This variable conditionally defines the HAS_GETITIMER symbol, which
 ?S: indicates to the C program that the getitimer() routine is available.
 ?S:.
 ?C:HAS_GETITIMER:
 ?C: This symbol, if defined, indicates that the getitimer routine is
 ?C: available to return interval timers.
 ?C:.
 ?H:#\$d_getitimer HAS_GETITIMER /**/
 ?H:.
 ?LINT:set d_getitimer
 : see if getitimer exists
 set getitimer d_getitimer
 eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getitimer.U

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

```
/*
 * $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
 *
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 *
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 * as specified in the README file that comes with the distribution.
 * You may reuse parts of this distribution only within the terms of
 * that same Artistic Licence; a copy of which may be found at the root
 * of the source tree for dist 4.0.
 *
 * $Log: rename.C,v $
 * Revision 3.0.1.1 1994/01/24 13:58:42 ram
 * patch16: created
 *
 */
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/rename.C

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?RCS:
 ?MAKE:d_log2: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_log2:
 ?S: This variable conditionally defines the HAS_LOG2 symbol, which
 ?S: indicates to the C program that the log2() routine is available
 ?S: to compute log base two.
 ?S:.
 ?C:HAS_LOG2:
 ?C: This symbol, if defined, indicates that the log2 routine is
 ?C: available to do the log2 function.
 ?C:.
 ?H:#\$d_log2 HAS_LOG2 /**/
 ?H:.
 ?LINT:set d_log2
 : see if log2 exists
 set log2 d_log2
 eval \$inlibc

Found in path(s):
 * /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log2.U
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 ?RCS:
 ?MAKE:d_trunc: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_trunc:
 ?S: This variable conditionally defines the HAS_TRUNC symbol, which
 ?S: indicates to the C program that the trunc() routine is available
 ?S: to round doubles towards zero.
 ?S:.
 ?C:HAS_TRUNC:
 ?C: This symbol, if defined, indicates that the trunc routine is
 ?C: available to round doubles towards zero.
 ?C:.
 ?H:#\$d_trunc HAS_TRUNC /**/
 ?H:.
 ?LINT:set d_trunc
 : see if trunc exists
 set trunc d_trunc
 eval \$inlibc

Found in path(s):
 * /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_trunc.U
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 ?RCS:
 ?MAKE:d_nexttoward: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_nexttoward:
 ?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()
 ?S: is available to return the next machine representable long double from
 ?S: x in direction y.
 ?S:.
 ?C:HAS_NEXTTOWARD:
 ?C: This symbol, if defined, indicates that the nexttoward routine is
 ?C: available to return the next machine representable long double from
 ?C: x in direction y.
 ?C:.
 ?H:#\$d_nexttoward HAS_NEXTTOWARD /**/
 ?H:.
 ?LINT:set d_nexttoward
 : see if nexttoward exists
 set nexttoward d_nexttoward
 eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nexttoward.U

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 ?RCS:
 ?MAKE:d_ualarm: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_ualarm:
 ?S: This variable conditionally defines the HAS_UALARM symbol, which
 ?S: indicates to the C program that the ualarm() routine is available.
 ?S:.
 ?C:HAS_UALARM:
 ?C: This symbol, if defined, indicates that the ualarm routine is
 ?C: available to do alarms with microsecond granularity.
 ?C:.
 ?H:#\$d_ualarm HAS_UALARM /**/
 ?H:.
 ?LINT:set d_ualarm
 : see if ualarm exists
 set ualarm d_ualarm

eval \$inlibc

Found in path(s):

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?RCS:

?MAKE:d_towupper: Inlibc

?MAKE: -pick add \$@ %<

?S:d_towupper:

?S: This variable conditionally defines the HAS_TOWUPPER symbol, which

?S: indicates to the C program that the towupper() routine is available.

?S:.

?C:HAS_TOWUPPER:

?C: This symbol, if defined, indicates that the towupper () routine is

?C: available to do case conversion.

?C:.

?H:#\$d_towupper HAS_TOWUPPER /**/

?H:.

?LINT:set d_towupper

: see if towupper exists

set towupper d_towupper

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towupper.U

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?RCS:

?MAKE:d_remquo: Inlibc

?MAKE: -pick add \$@ %<

?S:d_remquo:

?S: This variable conditionally defines the HAS_REMQUO symbol, which

?S: indicates to the C program that the remquo() routine is available.

?S:.

?C:HAS_REMQUO:

?C: This symbol, if defined, indicates that the remquo routine is

?C: available to return the remainder and part of quotient.

?C:.

?H:#\$d_remquo HAS_REMQUO /**/

?H:.

?LINT:set d_remquo

: see if remquo exists

set remquo d_remquo

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remquo.U

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?RCS:

?MAKE:d_copysignl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_copysignl:

?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which

?S: indicates to the C program that the copysignl() routine is available.

?S: If aintl is also present we can emulate modfl.

?S:.

?C:HAS_COPYSIGNL:

?C: This symbol, if defined, indicates that the copysignl routine is

?C: available. If aintl is also present we can emulate modfl.

?C:.

?H:#\$d_copysignl HAS_COPYSIGNL /**/

?H:.

?LINT:set d_copysignl

: see if copysignl exists

set copysignl d_copysignl

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysignl.U

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?RCS:

?MAKE:d_erf: Inlibc

?MAKE: -pick add \$@ %<

?S:d_erf:

?S: This variable conditionally defines the HAS_ERF symbol, which

?S: indicates to the C program that the erf() routine is available.

?S:.

?C:HAS_ERF:

?C: This symbol, if defined, indicates that the erf routine is

?C: available to do the error function.

?C:.

?H:#\$d_erf HAS_ERF /**/

?H:.

?LINT:set d_erf

: see if erf exists

set erf d_erf

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erf.U

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?RCS: of the source tree for dist 3.0.

?X:

?X: Useless unit dropped. Use randfunc instead.

?X:

?LINT:empty

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randbits.U

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?RCS:

?MAKE:d_finite: Inlibc

?MAKE: -pick add \$@ %<

?S:d_finite:

?S: This variable conditionally defines the HAS_FINITE symbol, which

?S: indicates to the C program that the finite() routine is available.

?S:.

?C:HAS_FINITE:

?C: This symbol, if defined, indicates that the finite routine is

?C: available to check whether a double is finite (non-infinity non-NaN).

?C:.

?H:#\$d_finite HAS_FINITE /**/

?H:.

?LINT:set d_finite

: see if finite exists

set finite d_finite

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finite.U

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?RCS:

?MAKE:d_setitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d_setitimer:

?S: This variable conditionally defines the HAS_SETITIMER symbol, which

?S: indicates to the C program that the setitimer() routine is available.

?S:.

?C:HAS_SETITIMER:

?C: This symbol, if defined, indicates that the setitimer routine is

?C: available to set interval timers.

?C:.

?H:#\$d_setitimer HAS_SETITIMER /**/

?H:.

?LINT:set d_setitimer

: see if setitimer exists

set setitimer d_setitimer

eval \$inlibc

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setitimer.U

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:full_ar: ar

?MAKE: -pick add \$@ %<

?S:full_ar:

?S: This variable contains the full pathname to 'ar', whether or

?S: not the user has specified 'portability'. This is only used

?S: in the Makefile.SH.

?S:.

: Store the full pathname to the ar program for use in the C program

: Respect a hint or command line value for full_ar.

case "\$full_ar" in

") full_ar=\$ar ;;

esac

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Loc_ar.U

1.312 dumb-init 1.2.5-r3

1.312.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: dumb-init

Source: <https://github.com/Yelp/dumb-init/>

Files: *

Copyright:

2015, 2016 Yelp, Inc.

License: Expat

Files: debian/*

Copyright:

2015, 2016 Yelp, Inc.

2016 Dmitry Smirnov <onlyjob@debian.org>

License: Expat

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1.313 ci-info 4.0.0

1.313.1 Available under license :

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1.314 alsa-topology-conf 1.2.5.1-2

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1.315 cpp 12.3.0-1ubuntu1~22.04

1.315.1 Available under license :

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Version 2.1, February 1999

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
<!-- Creator    : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
<!-- site wide top running header menu -->

<ul id="overview">
  <li class="home">
    HOME_HREF
  </li>
  <li class="release">
    12_HREF
  </li>

  <li>
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">

    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>
```

```

<!-- homepage tab menu -->

<div id="tabmenu">
  <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
  </ul>
</div>
</div>

<div id="page">
<div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions. Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
web site.</p>
</div>
</div>
</body>
</html>

```

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man/sha2.3

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1.318 cryptsetup 2.4.3-1ubuntu1.2

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1.319 libio-socket-ssl-perl 2.074-2

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=head1 NAME

IO::Socket::SSL - SSL sockets with IO::Socket interface

=head1 SYNOPSIS

```
use strict;
use IO::Socket::SSL;

# simple client
my $cl = IO::Socket::SSL->new('www.google.com:443');
print $cl "GET / HTTP/1.0\r\n\r\n";
print <$cl>;

# simple server
my $srv = IO::Socket::SSL->new(
    LocalAddr => '0.0.0.0:1234',
    Listen => 10,
    SSL_cert_file => 'server-cert.pem',
    SSL_key_file => 'server-key.pem',
);
$srv->accept;
```

=head1 DESCRIPTION

IO::Socket::SSL makes using SSL/TLS much easier by wrapping the necessary functionality into the familiar L<IO::Socket> interface and providing secure defaults whenever possible.

This way, existing applications can be made SSL-aware without much effort, at least if you do blocking I/O and don't use select or poll.

But, under the hood, SSL is a complex beast.
So there are lots of methods to make it do what you need if the default behavior is not adequate.
Because it is easy to inadvertently introduce critical security bugs or just hard to debug problems, I would recommend studying the following documentation carefully.

The documentation consists of the following parts:

=over 4

=item * L</"Essential Information About SSL/TLS">

=item * L</"Basic SSL Client">

=item * L</"Basic SSL Server">

=item * L</"Common Usage Errors">

=item * L</"Common Problems with SSL">

=item * L</"Using Non-Blocking Sockets">

=item * L</"Advanced Usage">

=item * L</"Integration Into Own Modules">

=item * L</"Description Of Methods">

=back

Additional documentation can be found in

=over 4

=item * L<IO::Socket::SSL::Intercept> - Doing Man-In-The-Middle with SSL

=item * L<IO::Socket::SSL::Utils> - Useful functions for certificates etc

=back

=head1 Essential Information About SSL/TLS

SSL (Secure Socket Layer) or its successor TLS (Transport Layer Security) are protocols to facilitate end-to-end security. These protocols are used when

accessing

web sites (https), delivering or retrieving email, and in lots of other use cases.

In the following documentation we will refer to both SSL and TLS as simply 'SSL'.

SSL enables end-to-end security by providing two essential functions:

=over 4

=item Encryption

This part encrypts the data for transit between the communicating parties, so that nobody in between can read them. It also provides tamper resistance so that nobody in between can manipulate the data.

=item Identification

This part makes sure that you talk to the right peer.

If the identification is done incorrectly it is easy to mount man-in-the-middle attacks, e.g. if Alice wants to talk to Bob it would be possible for Mallory to put itself in the middle, so that Alice talks to Mallory and Mallory to Bob.

All the data would still be encrypted, but not end-to-end between Alice and Bob, but only between Alice and Mallory and then between Mallory and Bob.

Thus Mallory would be able to read and modify all traffic between Alice and Bob.

=back

Identification is the part which is the hardest to understand and the easiest to get wrong.

With SSL, the Identification is usually done with B<certificates> inside a B<PKI> (Public Key Infrastructure).

These Certificates are comparable to an identity card, which contains information about the owner of the card. The card then is somehow B<signed> by the B<issuer> of the card, the B<CA> (Certificate Agency).

To verify the identity of the peer the following must be done inside SSL:

=over 4

=item *

Get the certificate from the peer.

If the peer does not present a certificate we cannot verify it.

=item *

Check if we trust the certificate, e.g. make sure it's not a forgery.

We believe that a certificate is not a fake if we either know the certificate already or if we B<trust> the issuer (the CA) and can verify the issuers signature on the certificate.

In reality there is often a hierarchy of certificate agencies and we only directly trust the root of this hierarchy.

In this case the peer not only sends his own certificate, but also all B<intermediate certificates>.

Verification will be done by building a B<trust path> from the trusted root up to the peers certificate and checking in each step if the we can verify the issuer's signature.

This step often causes problems because the client does not know the necessary trusted root certificates. These are usually stored in a system dependent CA store, but often the browsers have their own CA store.

=item *

Check if the certificate is still valid.

Each certificate has a lifetime and should not be used after that time because it might be compromised or the underlying cryptography got broken in the mean time.

=item *

Check if the subject of the certificate matches the peer.

This is like comparing the picture on the identity card against the person representing the identity card.

When connecting to a server this is usually done by comparing the hostname used for connecting against the names represented in the certificate.

A certificate might contain multiple names or wildcards, so that it can be used for multiple hosts (e.g. *.example.com and *.example.org).

Although nobody sane would accept an identity card where the picture does not match the person we see, it is a common implementation error with SSL to omit this check or get it wrong.

=item *

Check if the certificate was revoked by the issuer.

This might be the case if the certificate was compromised somehow and now somebody else might use it to claim the wrong identity.

Such revocations happened a lot after the heartbleed attack.

For SSL there are two ways to verify a revocation, CRL and OCSP.

With CRLs (Certificate Revocation List) the CA provides a list of serial numbers for revoked certificates. The client somehow has to download the list (which can be huge) and keep it up to date.

With OCSP (Online Certificate Status Protocol) the client can check a single certificate directly by asking the issuer.

Revocation

is the hardest part of the verification and none of today's browsers get it fully correct. But, they are still better than most other implementations which don't implement revocation checks or leave the hard parts to the developer.

=back

When accessing a web site with SSL or delivering mail in a secure way the identity is usually only checked one way, e.g. the client wants to make sure it talks to the right server, but the server usually does not care which client it talks to.

But, sometimes the server wants to identify the client too and will request a certificate from the client which the server must verify in a similar way.

=head1 Basic SSL Client

A basic SSL client is simple:

```
my $client = IO::Socket::SSL->new('www.example.com:443')
or die "error=$!, ssl_error=$SSL_ERROR";
```

This will take the OpenSSL default CA store as the store for the trusted CA. This usually works on UNIX systems.

If there are no certificates in the store it will try use L<Mozilla::CA> which provides the default CAs of Firefox.

In the default settings, L<IO::Socket::SSL> will use a safer cipher set and SSL version, do a proper hostname check against the certificate, and use SNI (server name indication) to send the hostname inside the SSL handshake. This is necessary to work with servers which have different certificates behind the same IP address.

It will also check the revocation of the certificate with OCSP, but currently only if the server provides OCSP stapling (for deeper checks see C<ocsp_resolver> method).

Lots of options can be used to change ciphers, SSL version, location of CA and much more. See documentation of methods for details.

With protocols like SMTP it is necessary to upgrade an existing socket to SSL.

This can be done like this:

```
my $client = IO::Socket::INET->new('mx.example.com:25') or die $!;
# .. read greeting from server
# .. send EHLO and read response
# .. send STARTTLS command and read response
# .. if response was successful we
can upgrade the socket to SSL now:
IO::Socket::SSL->start_SSL($client,
# explicitly set hostname we should use for SNI
SSL_hostname => 'mx.example.com'
) or die $SSL_ERROR;
```

A more complete example for a simple HTTP client:

```
my $client = IO::Socket::SSL->new(
# where to connect
PeerHost => "www.example.com",
PeerPort => "https",

# certificate verification - VERIFY_PEER is default
SSL_verify_mode => SSL_VERIFY_PEER,

# location of CA store
# need only be given if default store should not be used
SSL_ca_path => '/etc/ssl/certs', # typical CA path on Linux
SSL_ca_file => '/etc/ssl/cert.pem', # typical CA file on BSD

# or just use default path on system:
IO::Socket::SSL::default_ca(), # either explicitly
# or implicitly by not giving SSL_ca_*

# easy hostname verification
# It will use PeerHost as default name a verification
# scheme as default, which is safe enough for most purposes.
SSL_verifcn_name => 'foo.bar',
SSL_verifcn_scheme => 'http',

# SNI
support - defaults to PeerHost
SSL_hostname => 'foo.bar',

) or die "failed connect or ssl handshake: $!, $SSL_ERROR";

# send and receive over SSL connection
print $client "GET / HTTP/1.0\r\n\r\n";
print <$client>;
```

And to do revocation checks with OCSP (only available with OpenSSL 1.0.0 or higher and L<Net::SSL> 1.59 or higher):

```
# default will try OCSP stapling and check only leaf certificate
my $client = IO::Socket::SSL->new($dst);

# better yet: require checking of full chain
my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN,
);

# even better: make OCSP errors fatal
# (this will probably fail with lots of sites because of bad OCSP setups)
# also use common OCSP response cache
my $ocsp_cache = IO::Socket::SSL::OCSP_Cache->new;
my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN|SSL_OCSP_FAIL_HARD,
SSL_ocsp_cache => $ocsp_cache,
);

#
disable OCSP stapling in case server has problems with it
my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_NO_STAPLE,
);

# check any certificates which are not yet checked by OCSP stapling or
# where we have already cached results. For your own resolving combine
# $ocsp->requests with $ocsp->add_response(uri,response).
my $ocsp = $client->ocsp_resolver();
my $errors = $ocsp->resolve_blocking();
if ($errors) {
warn "OCSP verification failed: $errors";
close($client);
}
```

=head1 Basic SSL Server

A basic SSL server looks similar to other L<IO::Socket> servers, only that it also contains settings for certificate and key:

```
# simple server
my $server = IO::Socket::SSL->new(
# where to listen
```

```

LocalAddr => '127.0.0.1',
LocalPort => 8080,
Listen => 10,

# which certificate to offer
# with SNI support there can be different certificates per hostname
SSL_cert_file => 'cert.pem',
SSL_key_file => 'key.pem',

) or die "failed to listen: $!";

# accept client
my $client = $server->accept or die
"failed to accept or ssl handshake: $!,$SSL_ERROR";

```

This will automatically use a secure set of ciphers and SSL version and also supports Forward Secrecy with (Elliptic-Curve) Diffie-Hellmann Key Exchange.

If you are doing a forking or threading server, we recommend that you do the SSL handshake inside the new process/thread so that the master is free for new connections.

We recommend this because a client with improper or slow SSL handshake could make the server block in the handshake which would be bad to do on the listening socket:

```

# inet server
my $server = IO::Socket::INET->new(
# where to listen
LocalAddr => '127.0.0.1',
LocalPort => 8080,
Listen => 10,
);

# accept client
my $client = $server->accept or die;

# SSL upgrade client (in new process/thread)
IO::Socket::SSL->start_SSL($client,
SSL_server => 1,
SSL_cert_file => 'cert.pem',
SSL_key_file =>
'key.pem',
) or die "failed to ssl handshake: $SSL_ERROR";

```

Like with normal sockets, neither forking nor threading servers scale well. It is recommended to use non-blocking sockets instead, see [L</"Using Non-Blocking Sockets">](#)

=head1 Common Usage Errors

This is a list of typical errors seen with the use of L<IO::Socket::SSL>:

=over 4

=item *

Disabling verification with C<SSL_verify_mode>.

As described in L</"Essential Information About SSL/TLS">, a proper identification of the peer is essential and failing to verify makes Man-In-The-Middle attacks possible.

Nevertheless, lots of scripts and even public modules or applications disable verification, because it is probably the easiest way to make the thing work and usually nobody notices any security problems anyway.

If the verification does not succeed with the default settings, one can do the following:

=over 8

=item *

Make sure the needed CAs are in the store, maybe use C<SSL_ca_file> or C<SSL_ca_path> to specify a different CA store.

=item *

If the validation fails because the certificate is self-signed and that's what you expect, you can use the C<SSL_fingerprint> option to accept specific leaf certificates by their certificate or pubkey fingerprint.

=item *

If the validation failed because the hostname does not match and you cannot access the host with the name given in the certificate, you can use C<SSL_verifcnc_name> to specify the hostname you expect in the certificate.

=back

A common error pattern is also to disable verification if they found no CA store (different modules look at different "default" places).

Because L<IO::Socket::SSL> is now able to provide a usable CA store on most platforms (UNIX, Mac OSX and Windows) it is better to use the defaults provided by L<IO::Socket::SSL>.

If necessary these can be checked with the `C<default_ca>` method.

=item *

Polling of SSL sockets (e.g. select, poll and other event loops).

If you `sysread` one byte on a normal socket it will result in a `syscall` to read

one byte. Thus, if more than one byte is available on the socket it will be kept in the network stack of your OS and the next select or poll call will return the socket as readable.

But, with SSL you don't deliver single bytes. Multiple data bytes are packaged and encrypted together in an SSL frame. Decryption can only be done on the whole frame, so a `sysread` for one byte actually reads the complete SSL frame from the socket, decrypts it and returns the first decrypted byte. Further `sysreads` will return more bytes from the same frame until all bytes are returned and the next SSL frame will be read from the socket.

Thus, in order to decide if you can read more data (e.g. if `sysread` will block) you must check if there are still data in the current SSL frame by calling `C<pending>` and if there are no data pending you might check the underlying socket with select or poll.

Another way might be if you try to `sysread` at least 16kByte all the time.

16kByte is the maximum size

of an SSL frame and because `sysread` returns data from only a single SSL frame you can guarantee that there are no pending data.

Additionally, contrary to plain sockets the data delivered on the socket are not necessarily application payload.

It might be a TLS handshake, it might just be the beginning of a TLS record or it might be TLS session tickets which are sent after the TLS handshake in TLS 1.3.

In such situations select will return that data are available for read since it only looks at the plain socket.

A `sysread` on the `IO::Socket::SSL` socket will not return any data though since it is an abstraction which only returns application data.

This causes the `sysread` to hang in case the socket was blocking or to return an error with `EAGAIN` on non-blocking sockets.

Applications using select or similar should therefore set the socket to non-blocking and also expect that the `sysread` might temporarily fail with `EAGAIN`.

See also [L<"/Using Non-Blocking Sockets">](#).

=item *

Expecting exactly

the same behavior as plain sockets.

IO::Socket::SSL tries to emulate the usual socket behavior as good as possible, but full emulation can not be done. Specifically a read on the SSL socket might also result in a write on the TCP socket or a write on the SSL socket might result in a read on the TCP socket. Also C<accept> and B<close> on the SSL socket will result in writing and reading data to the TCP socket too.

Especially the hidden writes might result in a connection reset if the underlying TCP socket is already closed by the peer. Unless signal PIPE is explicitly handled by the application this will usually result in the application crashing. It is thus recommended to explicitly IGNORE signal PIPE so that the errors get propagated as EPIPE instead of causing a crash of the application.

=item *

Set 'SSL_version' or 'SSL_cipher_list' to a "better" value.

L<IO::Socket::SSL> tries to set these values to reasonable, secure values which are compatible with the rest of the world.

But,

there are some scripts or modules out there which tried to be smart and get more secure or compatible settings.

Unfortunately, they did this years ago and never updated these values, so they are still forced to do only 'TLSv1' (instead of also using TLSv12 or TLSv11). Or they set 'HIGH' as the cipher list and thought they were secure, but did not notice that 'HIGH' includes anonymous ciphers, e.g. without identification of the peer.

So it is recommended to leave the settings at the secure defaults which L<IO::Socket::SSL> sets and which get updated from time to time to better fit the real world.

=item *

Make SSL settings inaccessible by the user, together with bad builtin settings.

Some modules use L<IO::Socket::SSL>, but don't make the SSL settings available to the user. This is often combined with bad builtin settings or defaults (like switching verification off).

Thus the user needs to hack around these restrictions by using C<set_args_filter_hack> or similar.

=item *

Use

of constants as strings.

Constants like C<SSL_VERIFY_PEER> or C<SSL_WANT_READ> should be used as constants and not be put inside quotes, because they represent numerical values.

=item *

Forking and handling the socket in parent and child.

A B<fork> of the process will duplicate the internal user space SSL state of the socket. If both master and child interact with the socket by using their own SSL state strange error messages will happen. Such interaction includes explicit or implicit B<close> of the SSL socket. To avoid this the socket should be explicitly closed with B<SSL_no_shutdown>.

=item *

Forking and executing a new process.

Since the SSL state is stored in user space it will be duplicated by a B<fork> but it will be lost when doing B<exec>. This means it is not possible to simply redirect stdin and stdout for the new process to the SSL socket by duplicating the relevant file handles. Instead explicitly exchanging plain data between child-process and SSL socket are needed.

=back

=head1

Common Problems with SSL

SSL is a complex protocol with multiple implementations and each of these has their own quirks. While most of these implementations work together, it often gets problematic with older versions, minimal versions in load balancers, or plain wrong setups.

Unfortunately these problems are hard to debug.

Helpful for debugging are a knowledge of SSL internals, wireshark and the use of the debug settings of L<IO::Socket::SSL> and L<Net::SSLeay>, which can both be set with C<\$IO::Socket::SSL::DEBUG>.

The following debugs levels are defined, but used not in any consistent way:

=over 4

=item *

0 - No debugging (default).

=item *

1 - Print out errors from L<IO::Socket::SSL> and ciphers from L<Net::SSLeay>.

=item *

2 - Print also information about call flow from L<IO::Socket::SSL> and progress information from L<Net::SSLeay>.

=item *

3 - Print also some data dumps from L<IO::Socket::SSL> and from L<Net::SSLeay>.

=back

Also, C<analyze-ssl.pl>

from the ssl-tools repository at

L<<https://github.com/noxxi/p5-ssl-tools>> might be a helpful tool when debugging SSL problems, as do the C<openssl> command line tool and a check with a different SSL implementation (e.g. a web browser).

The following problems are not uncommon:

=over 4

=item *

Bad server setup: missing intermediate certificates.

It is a regular problem that administrators fail to include all necessary certificates into their server setup, e.g. everything needed to build the trust chain from the trusted root.

If they check the setup with the browser everything looks ok, because browsers work around these problems by caching any intermediate certificates and apply them to new connections if certificates are missing.

But, fresh browser profiles which have never seen these intermediates cannot fill in the missing certificates and fail to verify; the same is true with L<IO::Socket::SSL>.

=item *

Old versions of servers or load balancers which do not understand specific TLS versions or croak on specific data.

From time to time one encounters an SSL peer, which just closes the connection

inside the SSL handshake. This can usually be worked around by downgrading the SSL version, e.g. by setting `C<SSL_version>`. Modern Browsers usually deal with such servers by automatically downgrading the SSL version and repeat the connection attempt until they succeed.

Worse servers do not close the underlying TCP connection but instead just drop the relevant packet. This is harder to detect because it looks like a stalled connection. But downgrading the SSL version often works here too.

A cause of such problems are often load balancers or security devices, which have hardware acceleration and only a minimal (and less robust) SSL stack. They can often be detected because they support much fewer ciphers than other implementations.

=item *

Bad or old OpenSSL versions.

`L<IO::Socket::SSL>` uses OpenSSL with the help of the `L<Net::SSLeay>` library. It is recommend to have a recent version of this library, because it has more features and usually fewer known bugs.

=item *

Validation of client certificates fail.

Make sure that the purpose of the certificate allows use as ssl client (check with `C<< openssl x509 -purpose >>`, that the necessary root certificate is in the path specified by `C<SSL_ca*>` (or the default path) and that any intermediate certificates needed to build the trust chain are sent by the client.

=item *

Validation of self-signed certificate fails even if it is given with `C<SSL_ca*>` argument.

The `C<SSL_ca*>` arguments do not give a general trust store for arbitrary certificates but only specify a store for CA certificates which then can be used to verify other certificates. This especially means that certificates which are not a CA get simply ignored, notably self-signed certificates which do not also have the CA-flag set.

This behavior of OpenSSL differs from the more general trust-store concept which can be found in browsers and where it is possible to simply added arbitrary certificates (CA or not) as trusted.

=back

=head1 Using Non-Blocking Sockets

If you have a non-blocking socket, the expected behavior on read, write, accept or connect is to set C<\$!> to EWOULDBLOCK if the operation cannot be completed immediately. Note that EWOULDBLOCK is the same as EAGAIN on UNIX systems, but is different on Windows.

With SSL, handshakes might occur at any time, even within an established connection. In these cases it is necessary to finish the handshake before you can read or write data. This might result in situations where you want to read but must first finish the write of a handshake or where you want to write but must first finish a read.

In these cases C<\$!> is set to EAGAIN like expected, and additionally C<\$SSL_ERROR> is set to either SSL_WANT_READ or SSL_WANT_WRITE. Thus if you get EWOULDBLOCK on a SSL socket you must check C<\$SSL_ERROR> for SSL_WANT_* and adapt your event mask accordingly.

Using

readline on non-blocking sockets does not make much sense and I would advise against using it.

And, while the behavior is not documented for other L<IO::Socket> classes, it will try to emulate the behavior seen there, e.g. to return the received data instead of blocking, even if the line is not complete. If an unrecoverable error occurs it will return nothing, even if it already received some data.

Also, I would advise against using C<accept> with a non-blocking SSL object because it might block and this is not what most would expect. The reason for this is that C<accept> on a non-blocking TCP socket (e.g. L<IO::Socket::IP>, L<IO::Socket::INET>..) results in a new TCP socket which does not inherit the non-blocking behavior of the master socket. And thus, the initial SSL handshake on the new socket inside C<IO::Socket::SSL::accept> will be done in a blocking way. To work around this you are safer by doing a TCP accept and later upgrade the TCP socket in a non-blocking way with C<start_SSL> and C<accept_SSL>.

```
my $cl = IO::Socket::SSL->new($dst);
$cl->blocking(0);
my $sel = IO::Select->new($cl);
while (1) {
# with SSL a call for reading n bytes does not result in reading of n
# bytes from the socket, but instead it must read at least one full SSL
# frame. If the socket has no new bytes, but there are unprocessed data
# from the SSL frame can_read will block!
```

```

# wait for data on socket
$sel->can_read();

# new data on socket or eof
READ:
# this does not read only 1 byte from socket, but reads the complete SSL
# frame and then just returns one byte. On subsequent calls it than
# returns more byte of the same SSL frame until it needs to read the
# next frame.
my $n = sysread( $cl,my $buf,1);
if ( ! defined $n ) {
    die $! if not $!{EWOULDBLOCK};
    next if $SSL_ERROR == SSL_WANT_READ;
    if ( $SSL_ERROR == SSL_WANT_WRITE ) {
# need to write data on renegotiation
$sel->can_write;
next;
    }
    die "something went wrong:
$SSL_ERROR";
} elsif ( ! $n ) {
    last; # eof
} else {
    # read next bytes
    # we might have still data within the current SSL frame
    # thus first process these data instead of waiting on the underlying
    # socket object
    goto READ if $cl->pending; # goto sysread
    next;          # goto $sel->can_read
}
}

```

Additionally there are differences to plain sockets when using select, poll, kqueue or similar technologies to get notified if data are available. Relying only on these calls is not sufficient in all cases since unread data might be internally buffered in the SSL stack. To detect such buffering B<pending()> need to be used. Alternatively the buffering can be avoided by using B<sysread> with the maximum size of an SSL frame. See L</"Common Usage Errors"> for details.

=head1 Advanced Usage

=head2 SNI Support

Newer extensions to SSL can distinguish between multiple hostnames on the same IP address using Server Name Indication (SNI).

Support

for SNI on the client side was added somewhere in the OpenSSL 0.9.8 series, but with 1.0 a bug was fixed when the server could not decide about its hostname. Therefore client side SNI is only supported with OpenSSL 1.0 or higher in L<IO::Socket::SSL>.

With a supported version, SNI is used automatically on the client side, if it can determine the hostname from C<PeerAddr> or C<PeerHost> (which are synonyms in the underlying IO::Socket:: classes and thus should never be set both or at least not to different values).

On unsupported OpenSSL versions it will silently not use SNI.

The hostname can also be given explicitly given with C<SSL_hostname>, but in this case it will throw in error, if SNI is not supported.

To check for support you might call C<< IO::Socket::SSL->can_client_sni() >>.

On the server side, earlier versions of OpenSSL are supported, but only together with L<Net::SSLeay> version >= 1.50.

To check for support you might call C<< IO::Socket::SSL->can_server_sni() >>.

If

server side SNI is supported, you might specify different certificates per host with C<SSL_cert*> and C<SSL_key*>, and check the requested name using C<get_servername>.

=head2 Talk Plain and SSL With The Same Socket

It is often required to first exchange some plain data and then upgrade the socket to SSL after some kind of STARTTLS command. Protocols like FTPS even need a way to downgrade the socket again back to plain.

The common way to do this would be to create a normal socket and use C<start_SSL> to upgrade and stop_SSL to downgrade:

```
my $sock = IO::Socket::INET->new(...) or die $!;
... exchange plain data on $sock until starttls command ...
IO::Socket::SSL->start_SSL($sock,%sslargs) or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... now $sock is again an IO::Socket::INET object ...
```

But, lots of modules just derive directly from L<IO::Socket::INET>.

While

this base class can be replaced with L<IO::Socket::SSL>, these modules cannot easily support different base classes for SSL and plain data and switch between these classes on a starttls command.

To help in this case, L<IO::Socket::SSL> can be reduced to a plain socket on startup, and connect_SSL/accept_SSL/start_SSL can be used to enable SSL and

C<stop_SSL> to talk plain again:

```
my $sock = IO::Socket::SSL->new(
PeerAddr => ...
SSL_startHandshake => 0,
%sslargs
) or die $!;
... exchange plain data on $sock until starttls command ...
$sock->connect_SSL or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... $sock is still an IO::Socket::SSL object ...
... but data exchanged again in plain ...
```

=head1 Integration Into Own Modules

L<IO::Socket::SSL> behaves similarly to other L<IO::Socket> modules and thus could be integrated

in the same way, but you have to take special care when using non-blocking I/O (like for handling timeouts) or using select or poll. Please study the documentation on how to deal with these differences.

Also, it is recommended to not set or touch most of the C<SSL_*> options, so that they keep their secure defaults. It is also recommended to let the user override these SSL specific settings without the need of global settings or hacks like C<set_args_filter_hack>.

The notable exception is C<SSL_verifycn_scheme>.

This should be set to the hostname verification scheme required by the module or protocol.

=head1 Description Of Methods

L<IO::Socket::SSL> inherits from another L<IO::Socket> module. The choice of the super class depends on the installed modules:

=over 4

=item *

If L<IO::Socket::IP> with at least version 0.20 is installed it will use this module as super class, transparently providing IPv6 and IPv4 support.

=item *

If L<IO::Socket::INET6> is installed it will use this module as super class, transparently providing IPv6 and IPv4 support.

=item *

Otherwise it will fall back to L<IO::Socket::INET>, which is a perl core module. With L<IO::Socket::INET> you only get IPv4 support.

=back

Please be aware that with the IPv6 capable super classes, it will look first for the IPv6 address of a given hostname. If the resolver provides an IPv6 address, but the host cannot be reached by IPv6, there will be no automatic fallback to IPv4.

To avoid these problems you can enforce IPv4 for a specific socket by using the C<Domain> or C<Family> option with the value AF_INET as described in L<IO::Socket::IP>. Alternatively you can enforce IPv4 globally by loading L<IO::Socket::SSL> with the option 'inet4', in which case it will use the IPv4 only class L<IO::Socket::INET> as the super class.

L<IO::Socket::SSL> will provide all of the methods of its super class, but sometimes it will override them to match the behavior expected from SSL or to provide additional arguments.

The new or changed methods are described below, but please also read the section about SSL specific error handling.

=over 4

=item Error Handling

If an SSL specific error occurs, the global variable C<\$SSL_ERROR> will be set.

If the error occurred on an existing SSL socket, the method C<errstr> will give access to the latest socket specific error.

Both C<\$SSL_ERROR> and the C<errstr> method give a dualvar similar to C<\$!>, e.g. providing an error number in numeric context or an error description in string context.

=item B<new(...)>

Creates a new L<IO::Socket::SSL> object. You may use all the friendly options that came bundled with the super class (e.g. L<IO::Socket::IP>, L<IO::Socket::INET>, ...) plus (optionally) the ones described below.

If you don't specify any SSL related options it will do its best in using secure defaults, e.g. choosing good ciphers, enabling proper verification, etc.

=over 2

=item SSL_server

Set this option to a true value if the socket should be used as a server.

If this is not explicitly set it is assumed if the C<Listen> parameter is given when creating the socket.

=item SSL_hostname

This can be given to specify the hostname used for SNI, which is needed if you have multiple SSL hostnames on the same IP address. If not given it will try to determine the hostname from C<PeerAddr>, which will fail if only an IP was given or if this argument is used within C<start_SSL>.

If you want to disable SNI, set this argument to "".

Currently only supported for the client side and will be ignored for the server side.

See section "SNI Support" for details of SNI the support.

=item SSL_startHandshake

If this option is set to false (defaults to true) it will not start the SSL handshake yet. This has to be done later with C<accept_SSL> or C<connect_SSL>. Before the handshake is started read/write/etc. can be used to exchange plain data.

=item SSL_keepSocketOnError

If this option is set to true (defaults to false) it will not close the underlying TCP socket on errors. In most cases there is no real use for this behavior since both sides of the TCP connection will probably have a different idea of the current state of the connection.

=item SSL_ca | SSL_ca_file | SSL_ca_path

Usually you want to verify that the peer certificate has been signed by a trusted certificate authority. In this case you should use this option to specify the file (C<SSL_ca_file>) or directory (C<SSL_ca_path>) containing the certificateZ<>(s) of the trusted certificate authorities.

C<SSL_ca_path> can also be an array or a string containing multiple path, where the path are separated by the platform specific separator. This separator is C<;> on DOS, Windows, Netware, C<,> on VMS and C<:> for all the other systems. If multiple path are given at least one of these must be accessible.

You can also give a list of X509* certificate handles (like you get from L<Net::SSLeasy> or L<IO::Socket::SSL::Utils::PEM_xxx2cert>) with C<SSL_ca>. These will

be added to the CA store before path and file and thus take precedence.

If neither SSL_ca, nor SSL_ca_file or SSL_ca_path are set it will use C<default_ca()> to determine the user-set or system defaults.

If you really don't want to set a CA set SSL_ca_file or SSL_ca_path to C<\undef> or SSL_ca to an empty list. (unfortunately C<"> is used by some modules using L<IO::Socket::SSL> when CA is not explicitly given).

=item SSL_client_ca | SSL_client_ca_file

If verify_mode is VERIFY_PEER on the server side these options can be used to set the list of acceptable CAs for the client. This way the client can select they required certificate from a list of certificates.

The value for these options is similar to C<SSL_ca> and C<SSL_ca_file>.

=item SSL_fingerprint

Sometimes you have a self-signed certificate or a certificate issued by an unknown CA and you really want to accept it, but don't want to disable verification at all. In this case you can specify the fingerprint of the certificate

as C<'algo\$hex_fingerprint'>. C<algo> is a fingerprint algorithm supported by OpenSSL, e.g. 'sha1','sha256'... and C<hex_fingerprint> is the hexadecimal representation of the binary fingerprint. Any colons inside the hex string will be ignored.

If you want to use the fingerprint of the pubkey inside the certificate instead of the certificate use the syntax C<'algo\$pub\$hex_fingerprint'> instead.

To get the fingerprint of an established connection you can use C<get_fingerprint>.

It is also possible to skip C<algo\$>, i.e. only specify the fingerprint. In this case the likely algorithms will be automatically detected based on the length of the digest string.

You can specify a list of fingerprints in case you have several acceptable certificates.

If a fingerprint matches the topmost (i.e. leaf) certificate no additional validations can make the verification fail.

=item SSL_cert_file | SSL_cert | SSL_key_file | SSL_key

If you create a server you usually need to specify a server certificate which should be verified by the client. Same is true for client certificates, which should be verified by the server.

The certificate can be given as a file with `SSL_cert_file` or as an internal representation of an `X509*` object (like you get from `L<Net::SSL>` or `L<IO::Socket::SSL::Utils::PEM_xxx2cert>`) with `SSL_cert`.

If given as a file it will automatically detect the format.

Supported file formats are PEM, DER and PKCS#12, where PEM and PKCS#12 can contain the certificate and the chain to use, while DER can only contain a single certificate.

If given as a list of `X509*` please note, that the all the chain certificates (e.g. all except the first) will be "consumed" by openssl and will be freed if the SSL context gets destroyed - so you should never free them yourself. But the servers certificate (e.g. the first) will not be consumed by openssl and thus must be freed by the application.

For each certificate a key is need, which can either be given as a file with `SSL_key_file`

or as an internal representation of an `EVP_PKEY*` object with `SSL_key` (like you get from `L<Net::SSL>` or `L<IO::Socket::SSL::Utils::PEM_xxx2key>`).

If a key was already given within the PKCS#12 file specified by `SSL_cert_file` it will ignore any `SSL_key` or `SSL_key_file`.

If no `SSL_key` or `SSL_key_file` was given it will try to use the PEM file given with `SSL_cert_file` again, maybe it contains the key too.

If your SSL server should be able to use different certificates on the same IP address, depending on the name given by SNI, you can use a hash reference instead of a file with `C<<hostname => cert_file>>`.

If your SSL server should be able to use both RSA and ECDSA certificates for the same domain/IP a similar hash reference like with SNI is given. The domain names used to specify the additional certificates should be `C<hostname%whatever>`, i.e. `C<hostname%ecc>` or similar. This needs at least OpenSSL 1.0.2. To let the server pick the certificate based on the clients cipher preference `C<SSL_honor_cipher_order>` should be set to false.

In case certs and keys are needed but not given it might fall back to builtin defaults, see "Defaults for Cert, Key and CA".

Examples:

```
SSL_cert_file => 'mycert.pem',
```

```
SSL_key_file => 'mykey.pem',
```

```

SSL_cert_file => {
    "foo.example.org" => 'foo-cert.pem',
    "foo.example.org%ecc" => 'foo-ecc-cert.pem',
    "bar.example.org" => 'bar-cert.pem',
    # used when nothing matches or client does not support SNI
    " => 'default-cert.pem',
    '%ecc' => 'default-ecc-cert.pem',
},
SSL_key_file => {
    "foo.example.org" => 'foo-key.pem',
    "foo.example.org%ecc" => 'foo-ecc-key.pem',
    "bar.example.org" => 'bar-key.pem',
    # used when nothing matches or client does not support SNI
    " => 'default-key.pem',
    '%ecc' => 'default-ecc-key.pem',
}

```

=item SSL_passwd_cb

If your private key is encrypted, you might not want the default password prompt from Net::SSLeay. This option takes a reference to a subroutine that should return the password required to decrypt your private key.

=item SSL_use_cert

If this is true, it forces IO::Socket::SSL to use a certificate and key, even if you are setting up an SSL client. If this is set to 0 (the default), then you will only need a certificate and key if you are setting up a server.

SSL_use_cert will implicitly be set if SSL_server is set. For convenience it is also set if it was not given but a cert was given for use (SSL_cert_file or similar).

=item SSL_version

Sets the version of the SSL protocol used to transmit data. 'SSLv23' uses a handshake compatible with SSL2.0, SSL3.0 and TLS1.x, while 'SSLv2', 'SSLv3', 'TLSv1', 'TLSv1_1', 'TLSv1_2', or 'TLSv1_3' restrict handshake and protocol to the specified version. All values are case-insensitive. Instead of 'TLSv1_1', 'TLSv1_2', and 'TLSv1_3' one can also use 'TLSv11', 'TLSv12', and 'TLSv13'. Support for 'TLSv1_1', 'TLSv1_2', and 'TLSv1_3' requires recent versions of Net::SSLeay and openssl.

Independent from the

handshake format you can limit to set of accepted SSL versions by adding !version separated by ':':

The default SSL_version is 'SSLv23:!SSLv3:!SSLv2' which means, that the handshake format is compatible to SSL2.0 and higher, but that the successful handshake is limited to TLS1.0 and higher, that is no SSL2.0 or SSL3.0 because both of these versions have serious security issues and should not be used anymore.

You can also use !TLSv1_1 and !TLSv1_2 to disable TLS versions 1.1 and 1.2 while still allowing TLS version 1.0.

Setting the version instead to 'TLSv1' might break interaction with older clients, which need and SSL2.0 compatible handshake. On the other side some clients just close the connection when they receive a TLS version 1.1 request. In this case setting the version to 'SSLv23:!SSLv2:!SSLv3:!TLSv1_1:!TLSv1_2' might help.

=item SSL_cipher_list

If this option is set the cipher list for the connection will be set to the given value, e.g. something like 'ALL:!LOW:!EXP:!aNULL'.

This will only affect

ciphers for TLS 1.2 and lower. See the OpenSSL documentation

(L<<https://www.openssl.org/docs/manmaster/man1/openssl-ciphers.html#CIPHER-STRINGS>>) for more details.

Unless you fail to contact your peer because of no shared ciphers it is recommended to leave this option at the default setting, which uses the system default but disables some insecure ciphers which might still be enabled on older systems.

In case different cipher lists are needed for different SNI hosts a hash can be given with the host as key and the cipher suite as value, similar to B<SSL_cert*>.

=item SSL_ciphersuites

If this option is set the TLS 1.3 ciphersuites for the connection will be set to the given value. This is similar to SSL_cipher_list, but only for TLS 1.3 ciphers. See argument C<-ciphersuits> in the OpenSSL documentation (L<<https://www.openssl.org/docs/manmaster/man1/openssl-ciphers.html>>) for details.

Unless you fail to contact your peer because of no shared ciphers it is recommended to leave this option at the default setting, which uses the system default.

In case different cipher lists are needed for different SNI hosts a hash can be given with the host as key and the cipher suite as value, similar to B<SSL_cert*>.

=item SSL_honor_cipher_order

If this option is true the cipher order the server specified is used instead of the order proposed by the client. This option defaults to true to make use of our secure cipher list setting.

=item SSL_dh_file

To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve. This setting cares about DH parameters.

To support non-elliptic Diffie-Hellman key exchange a suitable file needs to be given here or the SSL_dh should be used with an appropriate value. See dhparam command in openssl for more information.

If neither C<SSL_dh_file> nor C<SSL_dh> are set a builtin DH parameter with a length of 2048 bit is used to offer DH key exchange by default. If you don't want this (e.g. disable DH key exchange) explicitly set this or the C<SSL_dh> parameter to undef.

=item SSL_dh

Like SSL_dh_file, but instead of giving a file you use a preloaded or generated DH*.

=item SSL_ecdh_curve

To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve. This setting cares about the ECDH curve(s).

To support Elliptic Curve Diffie-Hellmann key exchange the OID or NID of at least one suitable curve needs to be provided here.

With OpenSSL 1.1.0+ this parameter defaults to C<auto>, which means that it lets OpenSSL pick the best settings. If support for CTX_set_ecdh_auto is implemented in Net::SSLeay (needs at least version 1.86) it will use this to implement the same default. Otherwise it will default to C<prime256v1> (builtin of OpenSSL) in order to offer ECDH key exchange by default.

If setting groups or curves is supported by Net::SSLeay (needs at least version

1.86) then multiple curves can be given here in the order of the preference, i.e. C<P-521:P-384:P-256>. When used at the client side this will include the supported curves as extension in the TLS handshake.

If you don't want to have ECDH key exchange this could be set to undef or set C<SSL_ciphers> to exclude all of these ciphers.

You can check if ECDH support is available by calling C<< IO::Socket::SSL->can_ecdh >>.

=item SSL_verify_mode

This option sets the verification mode for the peer certificate.

You may combine SSL_VERIFY_PEER (verify_peer), SSL_VERIFY_FAIL_IF_NO_PEER_CERT (fail verification if no peer certificate exists; ignored for clients), SSL_VERIFY_CLIENT_ONCE (verify client once; ignored for clients). See OpenSSL man page for SSL_CTX_set_verify for more information.

The default is SSL_VERIFY_NONE for server (e.g. no check for client certificate) and SSL_VERIFY_PEER for client (check server certificate).

=item SSL_verify_callback

If you want to verify certificates yourself, you can pass a sub reference along with this parameter to do so. When the callback is called, it will be passed:

=over 4

=item 1.

a true/false value that indicates what OpenSSL thinks of the certificate,

=item 2.

a C-style memory address of the certificate store,

=item 3.

a string containing the certificate's issuer attributes and owner attributes, and

=item 4.

a string containing any errors encountered (0 if no errors).

=item 5.

a C-style memory address of the peer's own certificate (convertible to PEM form with Net::SSLeay::PEM_get_string_X509()).

=item 6.

The depth of the certificate in the chain. Depth 0 is the leaf certificate.

=back

The function should return 1 or 0, depending on whether it thinks the certificate is valid or invalid. The default is to let OpenSSL do all of the busy work.

The callback will be called for each element in the certificate chain.

See the OpenSSL documentation for `SSL_CTX_set_verify` for more information.

=item `SSL_verifycn_scheme`

The

scheme is used to correctly verify the identity inside the certificate by using the hostname of the peer.

See the information about the verification schemes in `B<verify_hostname>`.

If you don't specify a scheme it will use 'default', but only complain loudly if the name verification fails instead of letting the whole certificate verification fail. THIS WILL CHANGE, e.g. it will let the certificate verification fail in the future if the hostname does not match the certificate !!!! To override the name used in verification use `B<SSL_verifycn_name>`.

The scheme 'default' is a superset of the usual schemes, which will accept the hostname in common name and subjectAltName and allow wildcards everywhere. While using this scheme is way more secure than no name verification at all you better should use the scheme specific to your application protocol, e.g. 'http', 'ftp'...

If you are really sure, that you don't want to verify the identity using the hostname you can use 'none' as a scheme. In this case you'd better have alternative forms of verification, like a certificate fingerprint or do a manual verification later by calling `B<verify_hostname>` yourself.

=item `SSL_verifycn_publicsuffix`

This option is used to specify the behavior when checking wildcard certificates for public suffixes, e.g. no wildcard certificates for *.com or *.co.uk should be accepted, while *.example.com or *.example.co.uk is ok.

If not specified it will simply use the builtin default of `L<IO::Socket::SSL::PublicSuffix>`, you can create another object with `from_string` or `from_file` of this module.

To disable verification of public suffix set this option to `C<">`.

=item SSL_verifycn_name

Set the name which is used in verification of hostname. If SSL_verifycn_scheme is set and no SSL_verifycn_name is given it will try to use SSL_hostname or PeerHost and PeerAddr settings and fail if no name can be determined.

If SSL_verifycn_scheme is not set it will use a default scheme and warn if it cannot determine a hostname, but it will not fail.

Using PeerHost or PeerAddr works only if you create the connection directly with C<< IO::Socket::SSL->new >>, if an IO::Socket::INET object is upgraded with B<start_SSL> the name has to be given in B<SSL_verifycn_name> or B<SSL_hostname>.

=item SSL_check_crl

If you want to verify that the peer certificate has not been revoked by the signing authority, set this value to true. OpenSSL will search for the CRL in your SSL_ca_path, or use the file specified by SSL_crl_file. See the Net::SSLeay documentation for more details. Note that this functionality appears to be broken with OpenSSL < v0.9.7b, so its use with lower versions will result in an error.

=item SSL_crl_file

If you want to specify the CRL file to be used, set this value to the pathname to be used. This must be used in addition to setting SSL_check_crl.

=item SSL_ocsp_mode

Defines how certificate revocation is done using OCSP (Online Status Revocation Protocol). The default is to send a request for OCSP stapling to the server and if the server sends an OCSP response back the result will be used.

Any other OCSP checking needs to be done manually with C<ocsp_resolver>.

The following flags can be combined with C<|>:

=over 8

=item SSL_OCSP_NO_STAPLE

Don't ask for OCSP stapling.
This is the default if SSL_verify_mode is VERIFY_NONE.

=item SSL_OCSP_TRY_STAPLE

Try OCSP stapling, but don't complain if it gets no stapled response back.
This is the default if `SSL_verify_mode` is `VERIFY_PEER` (the default).

=item `SSL_OCSP_MUST_STAPLE`

Consider it a hard error, if the server does not send a stapled OCSP response back. Most servers currently send no stapled OCSP response back.

=item `SSL_OCSP_FAIL_HARD`

Fail hard on response errors, default is to fail soft like the browsers do.
Soft errors mean, that the OCSP response is not usable, e.g. no response, error response, no valid signature etc.
Certificate revocations inside a verified response are considered hard errors
in any case.

Soft errors inside a stapled response are never considered hard, e.g. it is expected that in this case an OCSP request will be send to the responsible OCSP responder.

=item `SSL_OCSP_FULL_CHAIN`

This will set up the `C<ocsp_resolver>` so that all certificates from the peer chain will be checked, otherwise only the leaf certificate will be checked against revocation.

=back

=item `SSL_ocsp_staple_callback`

If this callback is defined, it will be called with the SSL object and the OCSP response handle obtained from the peer, e.g. `C<<$cb->($ssl,$resp)>>`.
If the peer did not provide a stapled OCSP response the function will be called with `C<$resp=undef>`.
Because the OCSP response handle is no longer valid after leaving this function it should not be copied or freed. If access to the response is necessary after leaving this function it can be serialized with
`C<Net::SSLeay::i2d_OCSP_RESPONSE>`.

If no such callback is provided, it will use the default one, which verifies the response and uses it to check if the certificate(s) of the connection got revoked.

=item `SSL_ocsp_cache`

With this option a cache can be given for caching OCSP responses, which could be shared between different SSL contexts. If not given a cache specific to the SSL context only will be used.

You can either create a new cache with

`IO::Socket::SSL::OCSP_Cache->new([size]) >>` or implement your own cache, which needs to have methods `C<put($key,%entry)>` and `C<get($key)>` (returning `C<%entry>`) where entry is the hash representation of the OCSP response with fields like `C<nextUpdate>`. The default implementation of the cache will consider responses valid as long as `C<nextUpdate>` is less then the current time.

=item SSL_reuse_ctx

If you have already set the above options for a previous instance of `IO::Socket::SSL`, then you can reuse the SSL context of that instance by passing it as the value for the `SSL_reuse_ctx` parameter. You may also create a new instance of the `IO::Socket::SSL::SSL_Context` class, using any context options that you desire without specifying connection options, and pass that here instead.

If you use this option, all other context-related options that you pass in the same call to `new()` will be ignored unless the context supplied was invalid. Note that, contrary to versions of `IO::Socket::SSL` below v0.90, a global SSL context will not be implicitly used unless you use the `set_default_context()` function.

=item SSL_create_ctx_callback

With this callback you can make individual settings to the context after it got created and the default setup was done.

The callback will be called with the CTX object from `Net::SSLeay` as the single argument.

Example for limiting the server session cache size:

```
SSL_create_ctx_callback => sub {  
    my $ctx = shift;  
    Net::SSLeay::CTX_sess_set_cache_size($ctx,128);  
}
```

=item SSL_session_cache_size

If you make repeated connections to the same host/port and the SSL renegotiation time is an issue, you can

turn on client-side session caching with this option by specifying a positive cache size. For successive connections, pass the `SSL_reuse_ctx` option to the `new()` calls (or use `set_default_context()`) to make

use of the cached sessions. The session cache size refers to the number of unique host/port pairs that can be stored at one time; the oldest sessions in the cache will be removed if new ones are added.

This option does not effect the session cache a server has for it's clients, e.g. it does not affect SSL objects with SSL_server set.

Note that session caching with TLS 1.3 needs at least Net::SSLeay 1.86.

=item SSL_session_cache

Specifies session cache object which should be used instead of creating a new. Overrides SSL_session_cache_size.

This option is useful if you want to reuse the cache, but not the rest of the context.

A session cache object can be created using
`C<< IO::Socket::SSL::Session_Cache->new( cachesize ) >>.`

Use set_default_session_cache() to set a global cache object.

=item SSL_session_key

Specifies a key to use for lookups and inserts into client-side session cache. Per default ip:port of destination will be used, but sometimes you want to share the same session over multiple ports on the same server (like with FTPS).

=item SSL_session_id_context

This gives an id for the servers session cache. It's necessary if you want clients to connect with a client certificate. If not given but SSL_verify_mode specifies the need for client certificate a context unique id will be picked.

=item SSL_error_trap

When using the accept() or connect() methods, it may be the case that the actual socket connection works but the SSL negotiation fails, as in the case of an HTTP client connecting to an HTTPS server. Passing a subroutine ref attached to this parameter allows you to gain control of the orphaned socket instead of having it be closed forcibly.

The subroutine, if called, will be passed two parameters:
a reference to the socket on which the SSL
negotiation failed and the full
text of the error message.

=item SSL_npn_protocols

If used on the server side it specifies list of protocols advertised by SSL server as an array ref, e.g. ['spdy/2','http1.1'].

On the client side it specifies the protocols offered by the client for NPN as an array ref.

See also method C<next_proto_negotiated>.

Next Protocol Negotiation (NPN) is available with Net::SSL 1.46+ and openssl-1.0.1+. NPN is unavailable in TLSv1.3 protocol.

To check support you might call C<< IO::Socket::SSL->can_npn() >>.

If you use this option with an unsupported Net::SSL/openssl it will throw an error.

=item SSL_alpn_protocols

If used on the server side it specifies list of protocols supported by the SSL server as an array ref, e.g. ['http/2.0', 'spdy/3.1','http/1.1'].

On the client side it specifies the protocols advertised by the client for ALPN as an array ref.

See also method C<alpn_selected>.

Application-Layer Protocol Negotiation (ALPN) is available with Net::SSL 1.56+

and openssl-1.0.2+. More details about the extension are in RFC7301. To check support you might call C<< IO::Socket::SSL->can_alpn() >>. If you use this option with an unsupported Net::SSL/openssl it will throw an error.

Note that some client implementations may encounter problems if both NPN and ALPN are specified. Since ALPN is intended as a replacement for NPN, try providing ALPN protocols then fall back to NPN if that fails.

=item SSL_ticket_keycb => [\$sub,\$data] | \$sub

This is a callback used for stateless session reuse (Session Tickets, RFC 5077).

This callback will be called as C<< \$sub->(\$data,\$key_name) >> where C<\$data> is the argument given to SSL_ticket_keycb (or undef) and C<\$key_name> depends on the mode:

=over 8

=item encrypt_ticket

If a ticket needs to be encrypted the callback will be called without C<\$key_name>. In this case it should return C<(\$current_key,\$current_key_name)> where C<\$current_key> is the current key (32 byte random data) and C<\$current_key_name>

the name associated with this key (exactly 16 byte). This C<\$current_key_name> will be incorporated into the ticket.

=item decrypt ticket

If a ticket needs to be decrypted the callback will be called with C<\$key_name> as found in the ticket. It should return C<(\$key,\$current_key_name>) where C<\$key> is the key associated with the given C<\$key_name> and C<\$current_key_name> the name associated with the currently active key. If C<\$current_key_name> is different from the given C<\$key_name> the callback will be called again to re-encrypt the ticket with the currently active key.

If no key can be found which matches the given C<\$key_name> then this function should return nothing (empty list).

This mechanism should be used to limit the life time for each key encrypting the ticket. Compromise of a ticket encryption key might lead to decryption of SSL sessions which used session tickets protected by this key.

=back

Example:

```
Net::SSLeay::RAND_bytes(my $oldkey,32);
Net::SSLeay::RAND_bytes(my $newkey,32);
my $oldkey_name = pack("a16",'oldsecret');
my $newkey_name = pack("a16",'newsecret');

my @keys = (
    [ $newkey_name, $newkey ], # current active key
    [ $oldkey_name, $oldkey ], # already expired
);

my $keycb = [ sub {
    my ($mykeys,$name) = @_;

    # return (current_key, current_key_name) if no name given
    return ($mykeys->[0][1],$mykeys->[0][0]) if ! $name;

    # return (matching_key, current_key_name) if we find a key matching
    # the given name
    for(my $i = 0; $i<@$mykeys; $i++) {
    next if $name ne $mykeys->[$i][0];
    return ($mykeys->[$i][1],$mykeys->[0][0]);
    }

    # no matching key found
    return;
}, \@keys ];
```

```
my $srv = IO::Socket::SSL->new(..., SSL_ticket_keycb => $keycb);
```

```
=item SSL_mode_release_buffers 1|0
```

This enables or disables the `SSL_MODE_RELEASE_BUFFERS` option on the SSL object.

With this option the read buffer will be released after

each `SSL_read` but will

need to be reallocated for each new `SSL_read`. If memory usage is a concern this

might save lots of memory in the mean time though, about 34k per idle SSL

connection according to the documentation in `SSL_CTX_set_mode(3ssl)`.

```
=back
```

```
=item B<accept>
```

This behaves similar to the `accept` function of the underlying socket class, but

additionally does the initial SSL handshake. But because the underlying socket

class does return a blocking file handle even when `accept` is called on a

non-blocking socket, the SSL handshake on the new file object will be done in a

blocking way. Please see the section about non-blocking I/O for details.

If you don't like this behavior you should do `accept` on the TCP socket and then upgrade it with `C<start_SSL>` later.

```
=item B<connect(...)>
```

This behaves similar to the `connect` function but also does an SSL handshake.

Because you cannot give SSL specific arguments to this function, you should

better either use `C<new>` to create a connect SSL

socket or `C<start_SSL>` to

upgrade an established TCP socket to SSL.

```
=item B<close(...)>
```

Contrary to a `close` for a simple INET socket a `close` in SSL also mandates a

proper shutdown of the SSL part. This is done by sending a close notify message by both peers.

A naive implementation would thus wait until it receives the

close notify message from the peer - which conflicts with the commonly expected

semantic that a `close` will not block. The default behavior is thus to only send

a close notify but not wait for the close notify of the peer. If this is

required `C<SSL_fast_shutdown>` need to be explicitly set to false.

There are also cases where a SSL shutdown should not be done at all. This is

true for example when forking to let a child deal with the socket and closing

the socket in the parent process. A naive explicit `C<close>` or an implicit close

when destroying the socket in the parent would send a close notify to the peer

which would make the SSL socket in the client process unusable.

In this case an explicit `C<close>` with `C<SSL_no_shutdown>` set to true should be done in the parent process.

For more details and other arguments see `C<stop_SSL>` which gets called from `C<close>` to shutdown the SSL state of the socket.

=item B<sysread(BUF, LEN, [OFFSET])>

This function behaves from the outside the same as `B<sysread>` in other `L<IO::Socket>` objects, e.g. it returns at most `LEN` bytes of data.

But in reality it reads not only `LEN` bytes from the underlying socket, but at a single SSL frame. It then returns up to `LEN` bytes it decrypted from this SSL frame. If the frame contained more data than requested it will return only `LEN` data, buffer the rest and return it on further read calls.

This means, that it might be possible to read data, even if the underlying socket is not readable, so using `poll` or `select` might not be sufficient.

`sysread` will only return data from a single SSL frame, e.g. either the pending data from the already buffered frame or it will read a frame from the underlying socket and return the decrypted data. It will not return data spanning several SSL frames in a single call.

Also, calls to `sysread` might fail, because it must first finish an SSL handshake.

To understand these behaviors is essential, if you write applications which use event loops and/or non-blocking sockets. Please read the specific sections in this documentation.

=item B<syswrite(BUF, [LEN, [OFFSET]])>

This functions behaves from the outside the same as `B<syswrite>` in other `L<IO::Socket>` objects, e.g. it will write at most `LEN` bytes to the socket, but there is no guarantee, that all `LEN` bytes are written. It will return the number of bytes written.

Because it basically just calls `SSL_write` from OpenSSL `syswrite` will write at most a single SSL frame. This means, that no more than 16.384 bytes, which is the maximum size of an SSL frame, will be written at once.

For non-blocking sockets SSL specific behavior applies.
Please read the specific section in this documentation.

=item B<peek(BUF, LEN, [OFFSET])>

This function has exactly the same syntax as `B<sysread>`, and performs nearly the

same task but will not advance the read position so that successive calls to `peek()` with the same arguments will return the same results. This function requires OpenSSL 0.9.6a or later to work.

=item B<`pending()`>

This function gives you the number of bytes available without reading from the underlying socket object. This function is essential if you work with event loops, please see the section about polling SSL sockets.

=item B<`get_fingerprint([algo,certificate,pubkey])`>

This methods returns the fingerprint of the given certificate in the form `C<algo$digest_hex>`, where `C<algo>` is the used algorithm, default 'sha256'. If no certificate is given the peer certificate of the connection is used. If `C<pubkey>` is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate as `C<algo$pub$digest_hex>`.

=item
B<`get_fingerprint_bin([algo,certificate,pubkey])`>

This methods returns the binary fingerprint of the given certificate by using the algorithm `C<algo>`, default 'sha256'. If no certificate is given the peer certificate of the connection is used. If `C<pubkey>` is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate.

=item B<`get_cipher()`>

Returns the string form of the cipher that the `IO::Socket::SSL` object is using.

=item B<`get_sslversion()`>

Returns the string representation of the SSL version of an established connection.

=item B<`get_sslversion_int()`>

Returns the integer representation of the SSL version of an established connection.

=item B<`get_session_reused()`>

This returns true if the session got reused and false otherwise. Note that with a reused session no certificates are send within the handshake and no ciphers are offered and thus functions which rely on this might not work.

=item B<dump_peer_certificate()>

Returns

a parsable string with select fields from the peer SSL certificate.

This method directly returns the result of the dump_peer_certificate() method of Net::SSLay.

=item B<peer_certificate(\$field;[\$refresh])>

If a peer certificate exists, this function can retrieve values from it.

If no field is given the internal representation of certificate from Net::SSLay is returned.

If refresh is true it will not use a cached version, but check again in case the certificate of the connection has changed due to renegotiation.

The following fields can be queried:

=over 8

=item authority (alias issuer)

The certificate authority which signed the certificate.

=item owner (alias subject)

The owner of the certificate.

=item commonName (alias cn) - only for Net::SSLay version >=1.30

The common name, usually the server name for SSL certificates.

=item subjectAltNames - only for Net::SSLay version >=1.33

Alternative names for the subject, usually different names for the same

server, like example.org, example.com, *.example.com.

It returns a list of (typ,value) with typ GEN_DNS, GEN_IPADD etc (these constants are exported from IO::Socket::SSL).

See Net::SSLay::X509_get_subjectAltNames.

=back

=item B<sock_certificate(\$field)>

This is similar to C<peer_certificate> but will return the site's own certificate. The same arguments for B<\$field> can be used.

If no B<\$field> is given the certificate handle from the underlying OpenSSL will

be returned. This handle will only be valid as long as the SSL connection exists and if used afterwards it might result in strange crashes of the application.

=item B<peer_certificates>

This returns all the certificates send by the peer, e.g. first the peers own certificate and then the rest of the chain. You might use B<CERT_asHash> from L<IO::Socket::SSL::Utils> to inspect each of the certificates.

This function depends on a version of Net::SSLeay >= 1.58 .

=item B<get_servername>

This gives the name requested by the client if Server Name Indication (SNI) was used.

=item B<verify_hostname(\$hostname,\$scheme,\$publicsuffix)>

This verifies the given hostname against the peer certificate using the given scheme. Hostname is usually what you specify within the PeerAddr. See the C<SSL_verifycn_publicsuffix> parameter for an explanation of suffix checking and for the possible values.

Verification of hostname against a certificate is different between various applications and RFCs. Some scheme allow wildcards for hostnames, some only in subjectAltNames, and even their different wildcard schemes are possible. RFC 6125 provides a good overview.

To ease the verification the following schemes are predefined (both protocol name and rfcXXXX name can be used):

=over 8

=item rfc2818, xmpp (rfc3920), ftp (rfc4217)

Extended wildcards in subjectAltNames and common name are possible, e.g. *.example.org or even www*.example.org. The common name will be only checked if no DNS names are given in subjectAltNames.

=item
http (alias www)

While name checking is defined in rfc2818 the current browsers usually accept also an IP address (w/o wildcards) within the common name as long as no subjectAltNames are defined. Thus this is rfc2818 extended with this feature.

=item smtp (rfc2595), imap, pop3, acap (rfc4642), netconf (rfc5538), syslog (rfc5425), snmp (rfc5953)

Simple wildcards in subjectAltNames are possible, e.g. *.example.org matches www.example.org but not lala.www.example.org. If nothing from subjectAltNames match it checks against the common name, where wildcards are also allowed to match the full leftmost label.

=item ldap (rfc4513)

Simple wildcards are allowed in subjectAltNames, but not in common name. Common name will be checked even if subjectAltNames exist.

=item sip (rfc5922)

No wildcards are allowed and common name is checked even if subjectAltNames exist.

=item gist (rfc5971)

Simple wildcards are allowed in subjectAltNames and common name, but common name will only be checked if there are no DNS names in subjectAltNames.

=item default

This is a superset of all the rules and is automatically used if no scheme is given but a hostname (instead of IP) is known. Extended wildcards are allowed in subjectAltNames and common name and common name is checked always.

=item none

No verification will be done. Actually it does not make any sense to call verify_hostname in this case.

=back

The scheme can be given either by specifying the name for one of the above predefined schemes, or by using a hash which can have the following keys and values:

=over 8

=item check_cn: 0|'always'|'when_only'

Determines if the common name gets checked. If 'always' it will always be checked (like in ldap), if 'when_only' it will only be checked if no names are given in subjectAltNames (like in http), for any other values the common name will not be checked.

=item wildcards_in_alt: 0|full_label|anywhere'

Determines if and where wildcards in subjectAltNames are possible. If 'full_label' only cases like *.example.org will be possible (like in ldap), for 'anywhere' www*.example.org is possible too (like http), dangerous things like but www.*.org or even '*' will not be allowed. For compatibility with older versions 'leftmost' can be given instead of 'full_label'.

=item wildcards_in_cn: 0|full_label|anywhere'

Similar to wildcards_in_alt, but checks the common name. There is no predefined scheme which allows wildcards in common names.

=item ip_in_cn: 0|1|4|6

Determines if an IP address is allowed in the common name (no wildcards are allowed). If set to 4 or 6 it only allows IPv4 or IPv6 addresses, any other true value allows both.

=item callback: \&coderef

If you give a subroutine for verification it will be called with the arguments (\$hostname,\$commonName,@subjectAltNames), where hostname is the name given for verification, commonName is the result from peer_certificate('cn') and subjectAltNames is the result from peer_certificate('subjectAltNames').

All

other arguments for the verification scheme will be ignored in this case.

=back

=item B<next_proto_negotiated()>

This method returns the name of negotiated protocol - e.g. 'http/1.1'. It works for both client and server side of SSL connection.

NPN support is available with Net::SSLeay 1.46+ and openssl-1.0.1+. To check support you might call C<< IO::Socket::SSL->can_npn() >>.

=item B<alpn_selected()>

Returns the protocol negotiated via ALPN as a string, e.g. 'http/1.1', 'http/2.0' or 'spdy/3.1'.

ALPN support is available with Net::SSLeay 1.56+ and openssl-1.0.2+.

To check support, use `C<< IO::Socket::SSL->can_alpn() >>`.

=item B<errstr()>

Returns the last error (in string form) that occurred. If you do not have a real object to perform this method on, call `IO::Socket::SSL::errstr()` instead.

For read and write errors on non-blocking sockets, this method may include the string `C<SSL wants a read first!>` or `C<SSL wants a write first!>` meaning that the other side

is expecting to read from or write to the socket and wants to be satisfied before you get to do anything. But with version 0.98 you are better comparing the global exported variable `$SSL_ERROR` against the exported symbols `SSL_WANT_READ` and `SSL_WANT_WRITE`.

=item B<opened()>

This returns false if the socket could not be opened, 1 if the socket could be opened and the SSL handshake was successful done and -1 if the underlying `IO::Handle` is open, but the SSL handshake failed.

=item B<< IO::Socket::SSL->start_SSL(\$socket, ...) >>

This will convert a glob reference or a socket that you provide to an `IO::Socket::SSL` object. You may also pass parameters to specify context or connection options as with a call to `new()`. If you are using this function on an `accept()`ed socket, you must set the parameter `"SSL_server"` to 1, i.e. `IO::Socket::SSL->start_SSL($socket, SSL_server => 1)`. If you have a class that inherits from `IO::Socket::SSL` and you want the `$socket` to be blessed into your own class instead, use `MyClass->start_SSL($socket)` to achieve the desired effect.

Note that if `start_SSL()` fails in SSL negotiation, `$socket` will remain blessed in its original class. For non-blocking sockets you better just upgrade the socket to `IO::Socket::SSL` and call `accept_SSL` or `connect_SSL` and the upgraded object. To just upgrade the socket set `B<SSL_startHandshake>` explicitly to 0. If you call `start_SSL` w/o this parameter it will revert to blocking behavior for `accept_SSL` and `connect_SSL`.

If given the parameter `"Timeout"` it will stop if after the timeout no SSL connection was established. This parameter is only used for blocking sockets, if it is not given the default Timeout from the underlying `IO::Socket` will be used.

=item B<stop_SSL(...)>

This is the opposite of `start_SSL()`, `connect_SSL()` and `accept_SSL()`, e.g. it

will shutdown the SSL connection and return to the class before `start_SSL()`. It gets the same arguments as `close()`, in fact `close()` calls `stop_SSL()` (but without downgrading the class).

Will return true if it succeeded and undef if failed. This might be the case for non-blocking sockets. In this case `$!` is set to `EWOULDBLOCK` and the ssl error to `SSL_WANT_READ` or `SSL_WANT_WRITE`. In this case the call should be retried again with the same arguments once the socket is ready.

For calling from `C<stop_SSL>` `C<SSL_fast_shutdown>` default to false, e.g. it waits for the `close_notify` of the peer. This is necessary in case you want to downgrade the socket and continue to use it as a plain socket.

After `stop_SSL` the socket can again be used to exchange plain data.

=item `B<connect_SSL>`, `B<accept_SSL>`

These functions should be used to do the relevant handshake, if the socket got created with `C<new>` or upgraded with `C<start_SSL>` and `C<SSL_startHandshake>` was set to false.

They will return undef until the handshake succeeded or an error got thrown.

As long as the function returns undef and `$!` is set to `EWOULDBLOCK` one could retry the call after the socket

got readable (`SSL_WANT_READ`) or writeable (`SSL_WANT_WRITE`).

=item `B<ocsp_resolver>`

This will create an OCSP resolver object, which can be used to create OCSP requests for the certificates of the SSL connection. Which certificates are verified depends on the setting of `C<SSL_ocsp_mode>`: by default only the leaf certificate will be checked, but with `SSL_OCSP_FULL_CHAIN` all chain certificates will be checked.

Because to create an OCSP request the certificate and its issuer certificate need to be known it is not possible to check certificates when the trust chain is incomplete or if the certificate is self-signed.

The OCSP resolver gets created by calling `C<< $ssl->ocsp_resolver >>` and provides the following methods:

=over 8

=item `hard_error`

This returns the hard error when checking the OCSP response.

Hard errors are certificate revocations. With the `C<SSL_ocsp_mode>` of

SSL_OCSP_FAIL_HARD any soft error (e.g. failures to get signed information about the certificates) will be considered a hard error too.

The OCSP resolving will stop on the first hard error.

The method will return undef as long as no hard errors occurred and still requests to be resolved. If all requests got resolved and no hard errors occurred the method will return C<">.

=item soft_error

This returns the soft error(s) which occurred when asking the OCSP responders.

=item requests

This will return a hash consisting of C<(url,request)>-tuples, e.g. which contain the OCSP request string and the URL where it should be sent too. The usual way to send such a request is as HTTP POST request with a content-type of C<application/ocsp-request> or as a GET request with the base64 and url-encoded request is added to the path of the URL.

After you've handled all these requests and added the response with C<add_response> you should better call this method again to make sure, that no more requests are outstanding. IO::Socket::SSL will combine multiple OCSP requests for the same server inside a single request, but some server don't give a response to all these requests, so that one has to ask again with the remaining requests.

=item add_response(\$uri,\$response)

This method takes the HTTP body of the response which got received when sending the OCSP request to C<\$uri>. If no response was received or an error occurred one should either retry or consider C<\$response> as empty which will trigger a soft error.

The method returns the current value of C<hard_error>, e.g. a defined value when no more requests need to be done.

=item resolve_blocking(%args)

This combines C<requests> and C<add_response> which L<HTTP::Tiny> to do all necessary requests in a blocking way. C<%args> will be given to L<HTTP::Tiny> so that you can put proxy settings etc here. L<HTTP::Tiny> will be called with C<verify_ssl> of false, because the OCSP responses have their own signatures so no extra SSL verification is needed.

If you don't want to use blocking requests you need to roll your own user agent with C<requests> and C<add_response>.

=back

=item B<< IO::Socket::SSL->new_from_fd(\$fd, [mode], %sslargs) >>

This will convert a socket identified via a file descriptor into an SSL socket. Note that the argument list does not include a "MODE" argument; if you supply one, it will be thoughtfully ignored (for compatibility with IO::Socket::INET). Instead, a mode of '+' is assumed, and the file descriptor passed must be able to handle such I/O because the initial SSL handshake requires bidirectional communication.

Internally the given \$fd will be upgraded to a socket object using the C<new_from_fd> method of the super class (L<IO::Socket::INET> or similar) and then C<start_SSL> will be called using the given C<%sslargs>.

If C<\$fd> is already an IO::Socket object you should better call C<start_SSL> directly.

=item B<IO::Socket::SSL::default_ca([path|dir| SSL_ca_file => ..., SSL_ca_path => ...])>

Determines or sets the default CA path.

If existing path or dir or a hash is given it will set the default CA path to

this value and never try to detect it automatically.

If C<undef> is given it will forget any stored defaults and continue with detection of system defaults.

If no arguments are given it will start detection of system defaults, unless it has already stored user-set or previously detected values.

The detection of system defaults works similar to OpenSSL, e.g. it will check the directory specified in environment variable SSL_CERT_DIR or the path OPENSSLDIR/certs (SSLCERTS: on VMS) and the file specified in environment variable SSL_CERT_FILE or the path OPENSSLDIR/cert.pem (SSLCERTS:cert.pem on VMS). Contrary to OpenSSL it will check if the SSL_ca_path contains PEM files with the hash as file name and if the SSL_ca_file looks like PEM.

If no usable system default can be found it will try to load and use L<Mozilla::CA> and if not available give up detection.

The result of the detection will be saved to speed up future calls.

The function returns the saved default

CA as hash with SSL_ca_file and SSL_ca_path.

=item B<IO::Socket::SSL::set_default_context(...)>

You may use this to make IO::Socket::SSL automatically re-use a given context (unless specifically overridden in a call to new()).

It accepts one argument, which should be either an IO::Socket::SSL object or an IO::Socket::SSL::SSL_Context object.

See the SSL_reuse_ctx option of new() for more details.

Note that this sets the default context globally, so use with caution (esp. in mod_perl scripts).

```
=item B<IO::Socket::SSL::set_default_session_cache(...)>
```

You may use this to make IO::Socket::SSL automatically re-use a given session cache (unless specifically overridden in a call to new()).

It accepts one argument, which should be an IO::Socket::SSL::Session_Cache object or similar (e.g. something which implements get_session, add_session and del_session like IO::Socket::SSL::Session_Cache does).

See the SSL_session_cache option of new() for more details.

Note that this sets the default cache globally, so use with caution.

```
=item B<IO::Socket::SSL::set_defaults(%args)>
```

With this function one can set defaults for all SSL_* parameter used for creation of the context, like the SSL_verify* parameter. Any SSL_* parameter can be given or the following short versions:

```
=over 8
```

```
=item mode - SSL_verify_mode
```

```
=item callback - SSL_verify_callback
```

```
=item scheme - SSL_verifycn_scheme
```

```
=item name - SSL_verifycn_name
```

```
=back
```

```
=item B<IO::Socket::SSL::set_client_defaults(%args)>
```

Similar to C<set_defaults>, but only sets the defaults for client mode.

```
=item B<IO::Socket::SSL::set_server_defaults(%args)>
```

Similar to C<set_defaults>, but only sets the defaults for server mode.

```
=item B<IO::Socket::SSL::set_args_filter_hack('&code|use_defaults')>
```

Sometimes one has to use code which uses unwanted or invalid arguments for SSL,

typically disabling SSL verification or setting wrong ciphers or SSL versions.

With this hack it is possible to override these settings and restore sanity.

Example:

```
IO::Socket::SSL::set_args_filter_hack( sub {  
  my ($is_server,$args) = @_;  
  if ( ! $is_server ) {  
    # client settings - enable verification with default CA  
    # and fallback hostname verification etc  
    delete @{$args}{qw(  
      SSL_verify_mode  
      SSL_ca_file  
      SSL_ca_path  
      SSL_verifycn_scheme  
      SSL_version  
    )};  
    # and add some fingerprints for known certs which are signed by  
    # unknown CAs or are self-signed  
    $args->{SSL_fingerprint} = ...  
  }  
});
```

With the short setting `C<set_args_filter_hack('use_defaults')>` it will prefer the default settings in all cases. These default settings can be modified with `C<set_defaults>`, `C<set_client_defaults>` and `C<set_server_defaults>`.

=back

The following methods are unsupported (not to mention futile!) and IO::Socket::SSL will emit a large CROAK() if you are silly enough to use them:

=over 4

=item truncate

=item stat

=item ungetc

=item setbuf

=item setvbuf

=item fdopen

=item send/rcv

Note that send() and rcv()

cannot be reliably trapped by a tied filehandle
(such as that used by IO::Socket::SSL) and so may send unencrypted data over the
socket. Object-oriented calls to these functions will fail, telling you to use
the print/printf/syswrite and read/sysread families instead.

=back

=head1 DEPRECATIONS

The following functions are deprecated and are only retained for compatibility:

=over 2

=item context_init()

use the SSL_reuse_ctx option if you want to re-use a context

=item socketToSSL() and socket_to_SSL()

use IO::Socket::SSL->start_SSL() instead

=item kill_socket()

use close() instead

=item get_peer_certificate()

use the peer_certificate() function instead.

Used to return X509_Certificate with methods subject_name and issuer_name.

Now simply returns \$self which has these methods (although deprecated).

=item issuer_name()

use peer_certificate('issuer') instead

=item subject_name()

use peer_certificate('subject') instead

=back

=head1 EXAMPLES

See the 'example' directory,
the tests in 't' and also the tools in 'util'.

=head1 BUGS

If you use `IO::Socket::SSL` together with threads you should load it (e.g. use or require) inside the main thread before creating any other threads which use it. This way it is much faster because it will be initialized only once. Also there are reports that it might crash the other way.

Creating an `IO::Socket::SSL` object in one thread and closing it in another thread will not work.

`IO::Socket::SSL` does not work together with `Storable::fd_retrieve/fd_store`. See BUGS file for more information and how to work around the problem.

Non-blocking and timeouts (which are based on non-blocking) are not supported on Win32, because the underlying `IO::Socket::INET` does not support non-blocking on this platform.

If you have a server and it looks like you have a memory leak you might check the size of your session cache. Default for `Net::SSLeay` seems to be 20480, see the example for `SSL_create_ctx_callback` for how to limit it.

TLS

1.3 support regarding session reuse is incomplete.

=head1 SEE ALSO

`IO::Socket::INET`, `IO::Socket::INET6`, `IO::Socket::IP`, `Net::SSLeay`.

=head1 THANKS

Many thanks to all who added patches or reported bugs or helped `IO::Socket::SSL` another way. Please keep reporting bugs and help with patches, even if they just fix the documentation.

Special thanks to the team of `Net::SSLeay` for the good cooperation.

=head1 AUTHORS

Steffen Ullrich, <sullr at cpan.org> is the current maintainer.

Peter Behrooz, <behrooz at fas.harvard.edu> (Note the lack of an "i" at the end of "behrooz")

Marko Asplund, <marko.asplund at kronodoc.fi>, was the original author of `IO::Socket::SSL`.

Patches incorporated from various people, see file Changes.

=head1 COPYRIGHT

The original versions of this module are Copyright (C) 1999-2002 Marko Asplund.

The rewrite of this module is Copyright (C) 2002-2005 Peter Behroozi.

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Found in path(s):

* /libio-socket-ssl-perl-2-074-orig-1-tar-gz/IO-Socket-SSL-2.074/lib/IO/Socket/SSL.pod

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

abstract: 'Nearly transparent SSL encapsulation for IO::Socket::INET.'

author:

- 'Steffen Ullrich <sullr@cpan.org>, Peter Behroozi, Marko Asplund'

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

Net::SSLeay: '1.46'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: IO-Socket-SSL

no_index:

directory:

- t

- inc

requires:

Mozilla::CA: '0'

Net::SSLeay: '1.46'

Scalar::Util: '0'

resources:

bugtracker: <https://github.com/noxxi/p5-io-socket-ssl/issues>

homepage: <https://github.com/noxxi/p5-io-socket-ssl>

license: <http://dev.perl.org/licenses/>

repository: <https://github.com/noxxi/p5-io-socket-ssl>

version: '2.074'

x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

*

/libio-socket-ssl-perl-2-074-orig-1-tar-gz/IO-Socket-SSL-2.074/META.yml

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* /libio-socket-ssl-perl-2-074-orig-1-tar-gz/IO-Socket-SSL-2.074/lib/IO/Socket/SSL/PublicSuffix.pm

1.320 minipass-collect 2.0.1

1.320.1 Available under license :

The ISC License

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ISC

1.321 sqlite 3.37.2-2ubuntu0.3

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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

That's all there is to it!

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1.325 libauthen-sasl-perl 2.1600-1.1

1.325.1 Available under license :

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# modify it under the same terms as Perl itself.  
=head1 NAME
```

Authen::SASL::Perl::PLAIN - Plain Login Authentication class

=head1 SYNOPSIS

```
use Authen::SASL qw(Perl);
```

```
$sasl = Authen::SASL->new(  
    mechanism => 'PLAIN',  
    callback => {  
        user => $user,  
        pass => $pass  
    },  
);
```

=head1 DESCRIPTION

This method implements the client and server part of the PLAIN SASL algorithm, as described in RFC 2595 resp. IETF Draft draft-ietf-sasl-plain-XX.txt

=head2 CALLBACK

The callbacks used are:

=head3 Client

=over 4

=item authname

The authorization id to use after successful authentication (client)

=item user

The username to be used for authentication (client)

=item pass

The user's password to be used for authentication.

=back

=head3 Server

=over4

=item checkpass(username,
password, realm)

returns true and false depending on the validity of the credentials passed
in arguments.

=back

=head1 SEE ALSO

L<Authen::SASL>,
L<Authen::SASL::Perl>

=head1 AUTHORS

Software written by Graham Barr <gbarr@pobox.com>,
documentation written by Peter Marschall <peter@adpm.de>.

Please report any bugs, or post any suggestions, to the perl-ldap mailing list
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=cut

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* /libauthen-sasl-perl-2-1600-orig-1-tar-gz/Authen-SASL-2.16/lib/Authen/SASL/EXTERNAL.pm
* /libauthen-sasl-perl-2-1600-orig-1-tar-gz/Authen-SASL-2.16/lib/Authen/SASL/CRAM_MD5.pm
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ssf values > 1 mean integrity and confidentiality
ssf == 1 means integrity but no confidentiality
ssf < 1 means neither integrity nor confidentiality

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* /libauthen-sasl-perl-2-1600-orig-1-tar-gz/Authen-SASL-2.16/lib/Authen/SASL/Perl/DIGEST_MD5.pm
No license file was found, but licenses were detected in source scan.

abstract: 'SASL Authentication framework'

author:

- 'Graham Barr <gbarr@pobox.com>'

build_requires:

ExtUtils::MakeMaker: 6.42

Test::More: 0

configure_requires:

ExtUtils::MakeMaker: 6.42

distribution_type: module
generated_by: 'Module::Install version 0.95'
license: perl
meta-spec:
 url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
 version: 1.4
name: Authen-SASL
no_index:
 directory:
 - inc
 - t
recommends:
 GSSAPI: 0
requires:
 Digest::HMAC_MD5: 0
 Digest::MD5: 0
 perl: 5.005
resources:
 license: <http://dev.perl.org/licenses/>
 repository: <http://github.com/gbarr/perl-authen-sasl>
version: 2.16

Found in path(s):

* /libauthen-sasl-perl-2-1600-orig-1-tar-gz/Authen-SASL-2.16/META.yml

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=head1 NAME

Authen::SASL::Perl::ANONYMOUS - Anonymous Authentication class

=head1 SYNOPSIS

```
use Authen::SASL qw(Perl);
```

```
$sasl = Authen::SASL->new(  
  mechanism => 'ANONYMOUS',  
  callback => {  
    authname => $mailaddress  
  },  
);
```

=head1 DESCRIPTION

This method implements the client part of the ANONYMOUS SASL algorithm,
as described in RFC 2245 resp. in IETF Draft draft-ietf-sasl-anon-XX.txt.

=head2 CALLBACK

The callbacks used are:

=over 4

=item authname

email address or UTF-8 encoded string to be used as
trace information for the server

=back

=head1 SEE ALSO

L<Authen::SASL>,
L<Authen::SASL::Perl>

=head1 AUTHORS

Software written by Graham Barr <gbarr@pobox.com>,
documentation written by Peter Marschall <peter@adpm.de>.

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report any bugs, or post any suggestions, to the perl-ldap mailing list
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=head1 NAME

Authen::SASL::Perl -- Perl implementation of the SASL Authentication framework

=head1 SYNOPSIS

```
use Authen::SASL qw(Perl);

$sasl = Authen::SASL->new(
    mechanism => 'CRAM-MD5 PLAIN ANONYMOUS',
    callback => {
        user => $user,
        pass => \&fetch_password
    }
);
```

=head1 DESCRIPTION

B<Authen::SASL::Perl> is the pure Perl implementation of SASL mechanisms in the B<Authen::SASL> framework.

At the time of this writing it provides the client part implementation for the following SASL mechanisms:

=over 4

=item ANONYMOUS

The Anonymous SASL Mechanism as defined in RFC 2245 resp. in IETF Draft draft-ietf-sasl-anon-03.txt from February 2004 provides a method to anonymously access internet services.

Since it does no authentication it does not need to send any confidential information such as passwords in plain text over the network.

=item CRAM-MD5

The CRAM-MD5 SASL Mechanism as defined in RFC2195 resp. in IETF Draft draft-ietf-sasl-crammd5-XX.txt offers a simple challenge-response authentication mechanism.

Since it is a challenge-response authentication mechanism no passwords are transferred in clear-text over the wire.

Due to the simplicity of the protocol CRAM-MD5 is susceptible

to replay and dictionary attacks, so DIGEST-MD5 should be used in preference.

=item DIGEST-MD5

The DIGEST-MD5 SASL Mechanism as defined in RFC 2831 resp. in IETF Draft draft-ietf-sasl-rfc2831bis-XX.txt offers the HTTP Digest Access Authentication as SASL mechanism.

Like CRAM-MD5 it is a challenge-response authentication method that does not send plain text passwords over the network.

Compared to CRAM-MD5, DIGEST-MD5 prevents chosen plaintext attacks, and permits the use of third party authentication servers, so that it is recommended to use DIGEST-MD5 instead of CRAM-MD5 when possible.

=item EXTERNAL

The EXTERNAL SASL mechanism as defined in RFC 2222 allows the use of external authentication systems as SASL mechanisms.

=item GSSAPI

The GSSAPI SASL mechanism as defined in RFC 2222 resp. IETF Draft draft-ietf-sasl-gssapi-XX.txt allows using the Generic Security Service Application Program Interface [GSSAPI] KERBEROS V5 as a SASL mechanism.

Although GSSAPI is a general mechanism for authentication it is almost exclusively used for Kerberos 5.

=item LOGIN

The LOGIN SASL Mechanism as defined in IETF Draft draft-murchison-sasl-login-XX.txt allows the combination of username and clear-text password to be used in a SASL mechanism.

It does not provide a security layer and sends the credentials in clear over the wire.

Thus this mechanism should not be used without adequate security protection.

=item PLAIN

The Plain SASL Mechanism as defined in RFC 2595 resp. IETF Draft draft-ietf-sasl-plain-XX.txt is another SASL mechanism that allows username and clear-text password combinations in SASL environments.

Like LOGIN it sends the credentials in clear over the network and should not be used without sufficient security protection.

=back

As for server support, only I<PLAIN>, I<LOGIN> and I<DIGEST-MD5> are supported at the time of this writing.

C<server_new> OPTIONS is a hashref that is only relevant for I<DIGEST-MD5> for now and it supports the following options:

=over 4

=item - no_integrity

=item - no_confidentiality

=back

which configures how the security layers are negotiated with the client (or rather imposed to the client).

=head1 SEE ALSO

L<Authen::SASL>,
L<Authen::SASL::Perl::ANONYMOUS>,
L<Authen::SASL::Perl::CRAM_MD5>,
L<Authen::SASL::Perl::DIGEST_MD5>,
L<Authen::SASL::Perl::EXTERNAL>,
L<Authen::SASL::Perl::GSSAPI>,
L<Authen::SASL::Perl::LOGIN>,
L<Authen::SASL::Perl::PLAIN>

=head1 AUTHOR

Peter Marschall <peter@adpm.de>

Please report any bugs,

or post any suggestions, to the perl-ldap mailing list
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```
'GNU general public license'    => 'gpl',    1,
'GNU public license'           => 'gpl',    1,
'GNU lesser general public license' => 'lgpl',  1,
'GNU lesser public license'     => 'lgpl',  1,
'GNU library general public license' => 'lgpl',  1,
'GNU library public license'    => 'lgpl',  1,
'BSD license'                  => 'bsd',    1,
'proprietary'                  => 'proprietary', 0,
```

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=head1 NAME

Authen::SASL::Perl::CRAM_MD5 - CRAM MD5 Authentication class

=head1 SYNOPSIS

```
use Authen::SASL qw(Perl);
```

```
$sasl = Authen::SASL->new(
    mechanism => 'CRAM-MD5',
    callback => {
        user => $user,
        pass => $pass
    },
);
```

=head1 DESCRIPTION

This method implements the client part of the CRAM-MD5 SASL algorithm, as described in RFC 2195 resp. in IETF Draft draft-ietf-sasl-crammd5-XX.txt.

=head2 CALLBACK

The callbacks used are:

=over 4

=item user

The username to be used for authentication

=item pass

The user's password to be used for authentication

=back

=head1 SEE ALSO

L<Authen::SASL>,

L<Authen::SASL::Perl>

=head1 AUTHORS

Software written by Graham Barr <gbarr@pobox.com>,

documentation written

by Peter Marschall <peter@adpm.de>.

Please report any bugs, or post any suggestions, to the perl-ldap mailing list
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* /libauthen-sasl-perl-2-1600-orig-1-tar-gz/Authen-SASL-2.16/lib/Authen/SASL/Perl/CRAM_MD5.pm

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```

Found in path(s):

```
* /libauthen-sasl-perl-2-1600-orig-1-tar-gz/Authen-SASL-2.16/lib/Authen/SASL.pm
```

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```
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# it and/or modify it under the same terms as Perl itself.  
# to 1. If we have confidentiality, SSF would be an estimate of the  
# the lowest value that signifies confidentiality.  
# ssf values > 1 mean integrity and confidentiality  
# ssf == 1 means integrity but no confidentiality  
# ssf < 1 means neither integrity nor confidentiality
```

Found in path(s):

```
* /libauthen-sasl-perl-2-1600-orig-1-tar-gz/Authen-SASL-2.16/lib/Authen/SASL/Perl/GSSAPI.pm
```

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```
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=head1 NAME
```

Authen::SASL::Perl::EXTERNAL - External Authentication class

=head1 SYNOPSIS

```
use Authen::SASL qw(Perl);
```

```
$sasl = Authen::SASL->new(  
    mechanism => 'EXTERNAL',  
    callback => {  
        user => $user  
    },  
);
```

=head1 DESCRIPTION

This method implements the client part of the EXTERNAL SASL algorithm,
as described in RFC 2222.

=head2 CALLBACK

The callbacks used are:

=over 4

=item user

The username to be used for authentication

=back

=head1 SEE ALSO

L<Authen::SASL>,

L<Authen::SASL::Perl>

=head1 AUTHORS

Software written by Graham Barr <gbarr@pobox.com>,
documentation written by Peter Marschall <peter@adpm.de>.

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=head1 NAME

Authen::SASL::Perl::LOGIN - Login Authentication class

=head1 SYNOPSIS

```
use Authen::SASL qw(Perl);
```

```
$sasl = Authen::SASL->new(
    mechanism => 'LOGIN',
    callback => {
        user => $user,
        pass => $pass
    },
);
```

=head1 DESCRIPTION

This method implements the client and server part of the LOGIN SASL algorithm, as described in IETF Draft draft-murchison-sasl-login-XX.txt.

=head2 CALLBACK

The callbacks used are:

=head3 Client

=over 4

=item user

The username to be used for authentication

=item pass

The user's password to be used for authentication

=back

=head3 Server

=over4

=item getsecret(username)

returns the password associated with C<username>

=item checkpass(username, password)

returns true

and false depending on the validity of the credentials passed in arguments.

=back

=head1 SEE ALSO

L<Authen::SASL>,

L<Authen::SASL::Perl>

=head1 AUTHORS

Software written by Graham Barr <gbarr@pobox.com>,

documentation written by Peter Marschall <peter@adpm.de>.

Server support by Yann Kerherve <yannk@cpan.org>

Please report any bugs, or post any suggestions, to the perl-ldap mailing list
<perl-ldap@perl.org>

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=cut

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

abstract: 'SASL Authentication framework'

author:

- 'Graham Barr <gbarr@pobox.com>'

build_requires:

ExtUtils::MakeMaker: 6.42

Test::More: 0

configure_requires:

ExtUtils::MakeMaker: 0

dynamic_config: 0

generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.120921'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4
name: Authen-SASL
no_index:
directory:
- t
- inc
requires:
Digest::HMAC_MD5: 0
Digest::MD5: 0
perl: 5.005
version: 2.16

Found in path(s):

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=head1 NAME

Authen::SASL - SASL Authentication framework

=head1 SYNOPSIS

use Authen::SASL;

```
$sasl = Authen::SASL->new(  
    mechanism => 'CRAM-MD5 PLAIN ANONYMOUS',  
    callback => {  
        pass => \&fetch_password,  
        user => $user,  
    }  
);
```

=head1 DESCRIPTION

SASL is a generic mechanism for authentication used by several network protocols. B<Authen::SASL> provides an implementation framework that all protocols should be able to share.

The framework allows different implementations of the connection class to be plugged in. At the time of writing there were two such plugins.

=over 4

=item Authen::SASL::Perl

This module implements several mechanisms and is implemented entirely in Perl.

=item Authen::SASL::XS

This module uses the Cyrus SASL C-library (both version 1 and 2 are supported).

=item Authen::SASL::Cyrus

This module is the predecessor to L<Authen::SASL::XS>. It is recommended to use L<Authen::SASL::XS>

=back

By

default the order in which these plugins are selected is

Authen::SASL::XS, Authen::SASL::Cyrus and then Authen::SASL::Perl.

If you want to change it or want to specifically use one implementation only simply do

use Authen::SASL qw(Perl);

or if you have another plugin module that supports the Authen::SASL API

use Authen::SASL qw(My::SASL::Plugin);

=head2 CONSTRUCTOR

=over 4

=item new (OPTIONS)

The constructor may be called with or without arguments. Passing arguments is just a short cut to calling the C<mechanism> and C<callback> methods.

=over 4

=item callback =E<gt> { NAME => VALUE, NAME => VALUE, ... }

Set the callbacks.

See the L<callback/callback> method for details.

=item mechanism =E<gt> NAMES

=item mech =E<gt> NAMES

Set the list of mechanisms to choose from.

See the L<mechanism/mechanism> method for details.

=item debug =E<gt> VALUE

Set the debug level bit-value to C<VALUE>

Debug output will be sent to C<STDERR>. The bits of this value are:

- 1 Show debug messages in the Perl modules for the mechanisms.
(Currently only used in GSSAPI)
- 4 With security layers in place show information on packages read.
- 8 With security layers in place show information on packages written.

The default value is 0.

=back

=back

=head2 METHODS

=over 4

=item mechanism ()

Returns the current list of mechanisms

=item mechanism (NAMES)

Set the list of mechanisms to choose from. C<NAMES> should be a space separated string of the names.

=item callback (NAME)

Returns the current callback associated with C<NAME>.

=item callback (NAME => VALUE, NAME => VALUE, ...)

Sets the given callbacks to the given values

=item client_new (SERVICE, HOST, SECURITY)

Creates and returns a new connection object for a client-side connection.

=item server_new (SERVICE, HOST, OPTIONS)

Creates and returns a new connection object for a server-side connection.

=item error ()

Returns any error from the last connection

=back

=head1

The Connection Class

=over 4

=item server_start (CHALLENGE)

server_start begins the authentication using the chosen mechanism.

If the mechanism is not supported by the installed SASL it fails.

Because for some mechanisms the client has to start the negotiation, you can give the client challenge as a parameter.

=item server_step (CHALLENGE)

server_step performs the next step in the negotiation process. The first parameter you give is the clients challenge/response.

=item client_start ()

The initial step to be performed. Returns the initial value to pass to the server or an empty list on error.

=item client_step (CHALLENGE)

This method is called when a response from the server requires it. CHALLENGE is the value from the server. Returns the next value to pass to the server or an empty list on error.

=item need_step ()

Returns true if the selected mechanism requires another step before completion (error or success).

=item answer (NAME)

The method will return the value returned from the last call to the callback NAME

=item property (NAME)

Returns the property value associated with C<NAME>.

=item property (NAME => VALUE, NAME => VALUE, ...)

Sets the named properties to their associated values.

=item service ()

Returns the service argument that was passed to *_new-methods.

=item host ()

Returns the host argument that was passed to *_new-methods.

=item mechanism ()

Returns the name of the chosen mechanism.

=item is_success ()

Once need_step() returns false, then you can check if the authentication succeeded by calling this method which returns a boolean value.

=back

=head2 Callbacks

There are three different ways in which a callback may be passed

=over

=item CODEREF

If the value passed is a code reference then, when needed, it will be called and the connection object will be passed as the first argument. In addition some callbacks may be passed additional arguments.

=item ARRAYREF

If the value passed is an array reference, the first element in the array must be a code reference. When the callback is called the code reference will be called with the connection object passed as the first argument and all other values from the array passed after.

=item SCALAR

All other values passed will be used directly. ie it is the same as passing an code reference that, when called, returns the value.

=back

=head1 SEE ALSO

L<Authen::SASL::Perl>, L<Authen::SASL::XS>, L<Authen::SASL::Cyrus>

=head1 AUTHOR

Graham Barr <gbarr@pobox.com>

Please report any bugs, or post any suggestions, to the perl-ldap mailing list
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* /libauthen-sasl-perl-2-1600-orig-1-tar-gz/Authen-SASL-2.16/lib/Authen/SASL.pod

1.326 libtimedate-perl 2.3300-2

1.326.1 Available under license :

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=encoding utf8

=head1 NAME

Date::Language::Bulgarian - localization for Date::Format

=head1 DESCRIPTION

This is Bulgarian localization for Date::Format.

It is important to note that this module source code is in utf8.

All strings which it outputs are in utf8, so it is safe to use it
currently only with English. You are left alone to try and convert
the output when using different Date::Language::* in the same application.
This should be addressed in the future.

=head1 SYNOPSIS

```
use strict;
```

```

use warnings;
use Date::Language;
local $\\=$/;
my $template = '%a %b %e %T %Y (%Y-%m-%d %H:%M:%S)';
my $time=1290883821; #or just use time();
my @lt = localtime($time);
my %languages = qw(English GMT German EEST Bulgarian EET);
binmode(select,':utf8');

```

```

foreach my $l(keys %languages){
    my $lang = Date::Language->new($l);
    my $zone = $languages{$l};
    print $/. "$l
$zone";
    print $lang->time2str($template, $time);
    print $lang->time2str($template, $time, $zone);

    print $lang->strftime($template, \@lt);
}

```

=head1 AUTHOR

Krasimir Berov (berov@cpan.org)

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abstract: unknown

author:

- 'Graham Barr <gbarr@pobox.com>'

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.44, CPAN::Meta::Converter version 2.150010'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: '1.4'
name: TimeDate
no_index:
directory:
- t
- inc
resources:
bugtracker: <https://github.com/atoomic/perl-TimeDate/issues>
repository: <https://github.com/atoomic/perl-TimeDate>
version: '2.33'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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* /libtimedate-perl-2-3300-orig-1-tar-gz/TimeDate-2.33/lib/Date/Format.pm

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This is the perl5 TimeDate distribution. It requires perl version 5.003 or later

This distribution replaces my earlier GetDate distribution, which was only a date parser. The date parser contained in this distribution is far superior to the yacc based parser, and a *lot* faster.

The parser contained here will only parse absolute dates, if you want a date parser that can parse relative dates then take a look at the Time modules by David Muir on CPAN.

You install the library by running these commands:

```
perl Makefile.PL  
make  
make test  
make install
```

Please report any bugs/suggestions to <gbarr@pobox.com>

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Share and Enjoy!

Graham <gbarr@pobox.com>

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=head1 NAME

Date::Language::Hungarian - Magyar format for Date::Format

=head1 SYNOPSIS

```
my $lang = Date::Language->new('Hungarian');
print $lang->time2str("%a %b %e %T %Y", time);
```

```
@lt = localtime(time);
print $lang->time2str($template, time);
print $lang->strftime($template, @lt);
```

```
print $lang->time2str($template, time, $zone);
print $lang->strftime($template, @lt, $zone);
```

```
print $lang->ctime(time);
print $lang->asctime(@lt);
```

```
print $lang->ctime(time, $zone);
print $lang->asctime(@lt, $zone);
```

See L<Date::Format>.

=head1 AUTHOR

Paula Goddard (paula -at- paulacska -dot- com)

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=cut

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1.327 libhttp-message-perl 6.36-1

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HTTP-MESSAGE CONTRIBUTORS

This is the (likely incomplete) list of people who have helped make this distribution what it is, either via code contributions, patches, bug reports, help with troubleshooting, etc. A huge 'thank you' to all of them.

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1.328 libfont-afm-perl 1.20-3

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- * /libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/TimesBoldItalic.pm
- * /libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/TimesBold.pm
- * /libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/TimesItalic.pm
- * /libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/TimesRoman.pm

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=head1 NAME

Font::AFM - Interface to Adobe Font Metrics files

=head1 SYNOPSIS

```
use Font::AFM;
$h = new Font::AFM "Helvetica";
$copyright = $h->Notice;
$w = $h->Wx->{"aring"};
$w = $h->stringwidth("Gisle", 10);
```


\$h->dump; # for debugging

=head1 DESCRIPTION

This module implements the Font::AFM class. Objects of this class are initialised from an AFM (Adobe Font Metrics) file and allow you to obtain information about the font and the metrics of the various glyphs in the font.

All measurements in AFM files are given in terms of units equal to 1/1000 of the scale factor of the font being used. To compute actual sizes in a document, these amounts should be multiplied by (scale factor of font)/1000.

The following methods are available:

=over 3

=item \$afm = Font::AFM->new(\$fontname)

Object constructor. Takes the name of the font as argument.
Croaks if the font can not be found.

=item \$afm->latin1_wx_table()

Returns

a 256-element array, where each element contains the width of the corresponding character in the iso-8859-1 character set.

=item \$afm->stringwidth(\$string, [\$fontsize])

Returns the width of the argument string. The string is assumed to be encoded in the iso-8859-1 character set. A second argument can be used to scale the width according to the font size.

=item \$afm->FontName

The name of the font as presented to the PostScript language
C<findfont> operator, for instance "Times-Roman".

=item \$afm->FullName

Unique, human-readable name for an individual font, for instance
"Times Roman".

=item \$afm->FamilyName

Human-readable name for a group of fonts that are stylistic variants of a single design. All fonts that are members of such a group should

have exactly the same C<FamilyName>. Example of a family name is "Times".

=item \$afm->Weight

Human-readable name for the weight, or "boldness", attribute of a font. Examples are C<Roman>, C<Bold>, C<Light>.

=item \$afm->ItalicAngle

Angle
in degrees counterclockwise from the vertical of the dominant vertical strokes of the font.

=item \$afm->IsFixedPitch

If C<true>, the font is a fixed-pitch (monospaced) font.

=item \$afm->FontBBox

A string of four numbers giving the lower-left x, lower-left y, upper-right x, and upper-right y of the font bounding box. The font bounding box is the smallest rectangle enclosing the shape that would result if all the characters of the font were placed with their origins coincident, and then painted.

=item \$afm->UnderlinePosition

Recommended distance from the baseline for positioning underline strokes. This number is the y coordinate of the center of the stroke.

=item \$afm->UnderlineThickness

Recommended stroke width for underlining.

=item \$afm->Version

Version number of the font.

=item \$afm->Notice

Trademark or copyright notice, if applicable.

=item \$afm->Comment

Comments found in the AFM file.

=item \$afm->EncodingScheme

The name of the standard encoding scheme for the font. Most Adobe fonts use the C<AdobeStandardEncoding>. Special fonts might state C<FontSpecific>.

=item \$afm->CapHeight

Usually the y-value of the top of the capital H.

=item \$afm->XHeight

Typically the y-value of the top of the lowercase x.

=item \$afm->Ascender

Typically the y-value of the top of the lowercase d.

=item \$afm->Descender

Typically the y-value of the bottom of the lowercase p.

=item \$afm->Wx

Returns a hash table that maps from glyph names to the width of that glyph.

=item \$afm->BBox

Returns a hash table that maps from glyph names to bounding box information. The bounding box consist of four numbers: llx, lly, urx, ury.

=item \$afm->dump

Dumps the content of the Font::AFM object to STDOUT. Might sometimes be useful for debugging.

=back

The AFM specification can be found at:

http://partners.adobe.com/asn/developer/pdfs/tn/5004.AFM_Spec.pdf

=head1 ENVIRONMENT

=over 10

=item METRICS

Contains the path to search for AFM-files. Format is as for the
PATH

environment variable. The default path built into this library is:

/usr/lib/afm:/usr/local/lib/afm:/usr/openwin/lib/fonts/afm/.

=back

=head1 BUGS

Kerning data and composite character data are not yet parsed.

Ligature data is not parsed.

=head1 COPYRIGHT

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=cut

Found in path(s):

* /libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/AFM.pm

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

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Found in path(s):

* /libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/Courier.pm

* /libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/CourierBold.pm

* /libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/CourierOblique.pm

* /libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/CourierBoldOblique.pm

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Found in path(s):

* /libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/HelveticaOblique.pm

* /libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/Helvetica.pm

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* /libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/HelveticaBoldOblique.pm

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

NAME

Font::AFM - Interface to Adobe Font Metrics files

SYNOPSIS

```
use Font::AFM;
$h = new Font::AFM "Helvetica";
$copyright = $h->Notice;
$w = $h->Wx->{"aring"};
$w = $h->stringwidth("Gisle", 10);
$h->dump; # for debugging
```

DESCRIPTION

This module implements the Font::AFM class. Objects of this class are initialised from an AFM-file and allows you to obtain information about the font and the metrics of the various glyphs in the font.

All measurements in AFM files are given in terms of units equal to 1/1000 of the scale factor of the font being used. To compute actual sizes in a document, these amounts should be multiplied by (scale factor of font)/1000.

The following methods are available:

`$afm = Font::AFM->new($fontname)`

Object constructor. Takes the name of the font as argument.
It will croak if the font can not be found.

`$afm->latin1_wx_table()`

Returns a 256 element array, where each element contains the width of the corresponding character in the iso-8859-1 character set.

`$afm->stringwidth($string, [$fontsize])`

Returns the width of the string passed as argument. The string is assumed to be encoded in the iso-8859-1 character set. A second argument can be used to scale the width according to the font size.

\$afm->FontName

The name of the font as presented to the PostScript language
`findfont' operator, for instance "Times-Roman".

\$afm->FullName

Unique, human-readable name for an individual font, for
instance "Times Roman".

\$afm->FamilyName

Human-readable name for a group of fonts that are stylistic
variants of a single design. All fonts that are member of
such a group should have exactly the same `FamilyName'.
Example of a family name is "Times".

\$afm->Weight

Human-readable
name for the weight, or "boldness", attribute
of a font. Examples are `Roman', `Bold', `Light'.

\$afm->ItalicAngle

Angle in degrees counterclockwise from the vertical of the
dominant vertical strokes of the font.

\$afm->IsFixedPitch

If the value is `true', it indicated that the font is a
fixed-pitch (monospaced) font.

\$afm->FontBBox

A string of four numbers giving the lower-left x, lower-left
y, upper-right x, and upper-right y of the font bounding box.
The font bounding box is the smallest rectangle enclosing the
shape that would result if all the characters of the font
were placed with their origins coincident, and then painted.

\$afm->UnderlinePosition

Recommended distance from the baseline for positioning
underline strokes. This number is the y coordinate of the
center of the stroke.

\$afm->UnderlineThickness

Recommended stroke width for underlining.

\$afm->Version

Version number of the font.

\$afm->Notice

Trademark or copyright notice, if applicable.

\$afm->Comment

Comments found in the AFM file.

\$afm->EncodingScheme

The name of the standard encoding scheme for the font. Most Adobe fonts use the 'AdobeStandardEncoding'. Special fonts might state 'FontSpecific'.

\$afm->CapHeight

Usually the y-value of the top of the capital H.

\$afm->XHeight

Typically the y-value of the top of the lowercase x.

\$afm->Ascender

Typically the y-value of the top of the lowercase d.

\$afm->Descender

Typically the y-value of the bottom of the lowercase p.

\$afm->Wx

Returns a hash table that maps from glyph names to the width of that glyph.

\$afm->BBox

Returns a hash table that maps from glyph names to bounding box information. The bounding box consist of 4 numbers: llx, lly, urx, ury.

\$afm->dump

Dumps the content of the Font::AFM object to STDOUT. Might sometimes be useful for debugging.

The AFM specification can be found at:

ftp://ftp.adobe.com/pub/adobe/DeveloperSupport/TechNotes/PSfiles/5004.AFM_Spec.ps

ENVIRONMENT

METRICS Contains the path to search for AFM-files. Format is as for the PATH environment variable. The default path built into this library is:

/usr/lib/afm:/usr/local/lib/afm:/usr/openwin/lib/fonts/afm/..

BUGS

Kerning data and composite character data is not yet parsed.

Ligature data is not parsed.

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Found in path(s):

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1.329 libio-html-perl 1.004-2

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```
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```

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

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

```
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This is free software, and you are welcome to redistribute it  
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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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The End

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1.331 libfile-listing-perl 6.14-1

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1.332 libdata-dump-perl 1.25-1

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Data::Dump
=====

This module provides a few functions that traverse their argument list and return a string containing Perl code that, when C<eval>ed, produces a deep copy of the original arguments.

The main feature of the module is that it strives to produce output that is easy to read. Example:

```
``perl
@a = (1, [2, 3], {4 => 5});
dump(@a);
``
```

Produces:

```
``perl
"(1, [2, 3], { 4 => 5 })"
``
```

If you dump just a little data, it is output on a single line. If you dump data that is more complex or there is a lot of it, line breaks are automatically added to keep it easy to read.

Please refer to [Data::Dump's complete documentation](<https://metacpan.org/pod/Data::Dump>) for details on how to use this module, including which functions it exports. Or (after installation) type:

```
perldoc Data::Dump
```

To view the complete docs on your terminal.

Installation

To install this module via
cpanm:

```
> cpanm Data::Dump
```

Or, at the cpan shell:

```
cpan> install Data::Dump
```

If you wish to install it manually, download and unpack the tarball and
run the following commands:

```
perl Makefile.PL  
make  
make test  
make install
```

Of course, instead of downloading the tarball you may simply clone the
git repository:

```
$ git clone git://github.com/garu/Data-Dump.git
```

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```

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abstract: 'Pretty printing of data structures'

author:

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build_requires:
Test: '0'
configure_requires:
ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.62, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: '1.4'
name: Data-Dump
no_index:
directory:
- t
- inc
recommends:
MIME::Base64: '0'
requires:
Symbol: '0'
perl: '5.006'
resources:
bugtracker: <https://github.com/garu/data-dump/issues/>
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version: '1.25'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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=head1 NAME

Data::Dump - Pretty printing of data structures

=head1 SYNOPSIS

```
use Data::Dump qw(dump);
```

```
$str = dump(@list);
```

```
@copy_of_list = eval $str;
```

```
# or use it for easy debug printout
```

```
use Data::Dump; dd localtime;
```

=head1 DESCRIPTION

This module provides a few functions that traverse their argument list and return a string containing Perl code that, when C<eval>ed, produces a deep copy of the original arguments.

The main feature of the module is that it strives to produce output that is easy to read. Example:

```
@a = (1, [2, 3], {4 => 5});  
dump(@a);
```

Produces:

```
"(1, [2, 3], { 4 => 5 })"
```

If you dump just a little data, it is output on a single line. If you dump data that is more complex or there is a lot of it, line breaks are automatically added to keep it easy to read.

The following functions are provided (only the dd* functions are exported by default):

=over

=item dump(...)

=item pp(
...)

Returns a string containing a Perl expression. If you pass this string to Perl's built-in eval() function it should return a copy of the arguments you passed to dump().

If you call the function with multiple arguments then the output will be wrapped in parenthesis "(..., ...)". If you call the function with a single argument the output will not have the wrapping. If you call the function with a single scalar (non-reference) argument it will just return the scalar quoted if needed, but never break it into multiple lines. If you pass multiple arguments or references to arrays of hashes then the return value might contain line breaks to format it for easier reading. The returned string will never be "\n" terminated, even if contains multiple lines. This allows code like this to place the semicolon in the expected place:

```
print '$obj = ', dump($obj), ";\n";
```

If dump() is called in void context, then the dump is printed on STDERR and then "\n" terminated. You might find this useful for quick debug printouts, but the dd*() functions might be better alternatives

for this.

There is no difference between `dump()` and `pp()`, except that `dump()` shares its name with a not-so-useful perl builtin. Because of this some might want to avoid using that name.

=item `quote( $string )`

Returns a quoted version of the provided string.

It differs from `C<dump($string)>` in that it will quote even numbers and not try to come up with clever expressions that might shorten the output. If a non-scalar argument is provided then it's just stringified instead of traversed.

=item `dd( ... )`

=item `ddx( ... )`

These functions will call `dump()` on their argument and print the result to `STDOUT` (actually, it's the currently selected output handle, but `STDOUT` is the default for that).

The difference between them is only that `ddx()` will prefix the lines it prints with `"# "` and mark the first line with the file and line number where it was called. This is meant to be useful for debug printouts of state within programs.

=item `dumpf( ..., \&filter )`

Short hand for calling the `dump_filtered()` function of `L<Data::Dump::Filtered>`. This works like `dump()`, but the last argument should be a filter callback function. As objects are visited the filter callback is invoked and it can modify how the objects are dumped.

=back

=head1 CONFIGURATION

There are a few global variables that can be set to modify the output generated by the dump functions. It's wise to localize the setting of these.

=over

=item `$Data::Dump::INDENT`

This holds the string that's used for indenting multiline data structures. Its default value is " " (two spaces). Set it to "" to suppress indentation. Setting it to "| " makes for nice visuals even if the dump output then fails to be valid Perl.

=item \$Data::Dump::TRY_BASE64

How long must a binary string be before we try to use the base64 encoding for the dump output. The default is 50. Set it to 0 to disable base64 dumps.

=item \$Data::Dump::LINEWIDTH

This

controls how wide the string should be before we add a line break. The default is 60.

=back

=head1 LIMITATIONS

Code references will be dumped as `C<< sub { ... } >>`. Thus, `C<eval>`ing them will not reproduce the original routine. The `C<...>`-operator used will also require perl-5.12 or better to be eval'd.

If you forget to explicitly import the `C<dump>` function, your code will core dump. That's because you just called the builtin `C<dump>` function by accident, which intentionally dumps core. Because of this you can also import the same function as `C<pp>`, mnemonic for "pretty-print".

=head1 HISTORY

The `C<Data::Dump>` module grew out of frustration with Sarathy's in-most-cases-excellent `C<Data::Dumper>`. Basic ideas and some code are shared with Sarathy's module.

The `C<Data::Dump>` module provides a much simpler interface than `C<Data::Dumper>`. No OO interface is available and there are fewer configuration options to worry about. The other benefit is that the dump produced does not try to set any variables. It only returns what is needed to produce a copy of the arguments. This means that `C<dump("foo")>` simply returns `C<"foo">`, and `C<dump(1..3)>` simply returns `C<(1, 2, 3)>`.

=head1 SEE ALSO

`L<Data::Dump::Filtered>`, `L<Data::Dump::Trace>`, `L<Data::Dumper>`, `L<JSON>`,

L<Storable>

=head1 AUTHORS

The C<Data::Dump> module is written by Gisle Aas <gisle@aas.no>, based on C<Data::Dumper> by Gurusamy Sarathy <gsar@umich.edu>.

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* /libdata-dump-perl-1-25-orig-1-tar-gz/Data-Dump-1.25/lib/Data/Dump.pm

1.333 libencode-locale-perl 1.05-1.1

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abstract: 'Determine the locale encoding'

author:

- 'Gisle Aas <gisle@activestate.com>'

build_requires:

ExtUtils::MakeMaker: '0'

Test::More: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: Encode-Locale

no_index:

directory:

- t

- inc

recommends:

I18N::Langinfo: '0'

requires:

Encode: '2'

Encode::Alias: '0'

perl: '5.008'

resources:

repository: <http://github.com/gisle/encode-locale>

version: '1.05'

Found in path(s):

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Encode-Locale

=====

The purpose of this Perl module is try determine what encodings should be used when interfacing to various external interfaces. You will need perl-5.8 or better to use this module.

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=head1 NAME

Encode::Locale - Determine the locale encoding

=head1 SYNOPSIS

```
use Encode::Locale;
```

```
use Encode;
```

```
$string = decode(locale => $bytes);
```

```
$bytes = encode(locale => $string);
```

```
if (-t) {
```

```
    binmode(STDIN, ":encoding(console_in)");
```

```
    binmode(STDOUT, ":encoding(console_out)");
```

```
    binmode(STDERR, ":encoding(console_out)");
```

```
}
```

```
# Processing file names passed in as arguments
```

```
my $uni_filename = decode(locale => $ARGV[0]);
```



```

open(my $fh, "<", encode(locale_fs => $uni_filename))
    || die "Can't open '$uni_filename': $!";
binmode($fh, ":encoding(locale)");
...

```

=head1 DESCRIPTION

In many applications it's wise to let Perl use Unicode for the strings it processes. Most of the interfaces Perl has to the outside world are still byte based. Programs therefore need to decode byte strings that enter the program from the outside and encode them again on the way out.

The POSIX locale system

is used to specify both the language conventions requested by the user and the preferred character set to consume and output. The C<Encode::Locale> module looks up the charset and encoding (called a CODESET in the locale jargon) and arranges for the L<Encode> module to know this encoding under the name "locale". It means bytes obtained from the environment can be converted to Unicode strings by calling C<< Encode::encode(locale => \$bytes) >> and converted back again with C<< Encode::decode(locale => \$string) >>.

Where file systems interfaces pass file names in and out of the program we also need care. The trend is for operating systems to use a fixed file encoding that don't actually depend on the locale; and this module determines the most appropriate encoding for file names. The L<Encode> module will know this encoding under the name "locale_fs". For traditional Unix systems this will be an alias to the same encoding as "locale".

For programs running in a terminal window (called a "Console" on some systems) the "locale" encoding is usually a good choice for what to expect as input and output. Some systems allows us to query the encoding set for the terminal and C<Encode::Locale> will do that if available and make these encodings known under the C<Encode> aliases "console_in" and "console_out". For systems where we can't determine the terminal encoding these will be aliased as the same encoding as "locale". The advice is to use "console_in" for input known to come from the terminal and "console_out" for output to the terminal.

In addition to arranging for various Encode aliases the following functions and variables are provided:

=over

=item decode_argv()

=item decode_argv(Encode::FB_CROAK)

This will decode the command line arguments to perl (the C<@ARGV> array) in-place.

The function will by default replace characters that can't be decoded by "\x{FFFD}", the Unicode replacement character.

Any argument provided is passed as CHECK to underlying Encode::decode() call.

Pass the value C<Encode::FB_CROAK> to have the decoding croak if not all the command line arguments can be decoded. See L<Encode/"Handling Malformed Data"> for details on other options for CHECK.

```
=item env( $uni_key )
```

```
=item env( $uni_key => $uni_value )
```

Interface to get/set environment variables. Returns the current value as a Unicode string. The \$uni_key and \$uni_value arguments are expected to be Unicode strings as well. Passing C<undef> as \$uni_value deletes the environment variable named \$uni_key.

The returned value will have the characters that can't be decoded replaced by "\x{FFFD}", the Unicode replacement character.

There is no interface to request alternative CHECK behavior as for decode_argv(). If you need that you need to call encode/decode yourself. For example:

```
my $key = Encode::encode(locale => $uni_key, Encode::FB_CROAK);
my $uni_value = Encode::decode(locale => $ENV{$key}, Encode::FB_CROAK);
```

```
=item reinit( )
```

```
=item reinit( $encoding
)
```

Reinitialize the encodings from the locale. You want to call this function if you changed anything in the environment that might influence the locale.

This function will croak if the determined encoding isn't recognized by the Encode module.

With argument force \$ENCODING_... variables to set to the given value.

```
=item $ENCODING_LOCALE
```

The encoding name determined to be suitable for the current locale. L<Encode> know this encoding as "locale".

=item \$ENCODING_LOCALE_FS

The encoding name determined to be suitable for file system interfaces involving file names.

L<Encode> know this encoding as "locale_fs".

=item \$ENCODING_CONSOLE_IN

=item \$ENCODING_CONSOLE_OUT

The encodings to be used for reading and writing output to the a console.

L<Encode> know these encodings as "console_in" and "console_out".

=back

=head1 NOTES

This table summarizes the mapping of the encodings set up by the C<Encode::Locale> module:

Encode						
Alias		Windows				
Mac OS X		POSIX				
-----+-----+-----+-----						
locale		ANSI		nl_langinfo		nl_langinfo
locale_fs		ANSI		UTF-8		nl_langinfo
console_in		OEM		nl_langinfo		nl_langinfo
console_out		OEM		nl_langinfo		nl_langinfo

=head2 Windows

Windows has basically 2 sets of APIs. A wide API (based on passing UTF-16 strings) and a byte based API based a character set called ANSI. The regular Perl interfaces to the OS currently only uses the ANSI APIs. Unfortunately ANSI is not a single character set.

The encoding that corresponds to ANSI varies between different editions of Windows. For many western editions of Windows ANSI corresponds to CP-1252 which is a character set similar to ISO-8859-1. Conceptually the ANSI character set is a similar concept to the POSIX locale CODESET so this module figures out what the ANSI code page is and make this available as \$ENCODING_LOCALE and the "locale" Encoding alias.

Windows systems

also operate with another byte based character set.

It's called the OEM code page. This is the encoding that the Console takes as input and output. It's common for the OEM code page to differ from the ANSI code page.

=head2 Mac OS X

On Mac OS X the file system encoding is always UTF-8 while the locale can otherwise be set up as normal for POSIX systems.

File names on Mac OS X will at the OS-level be converted to NFD-form. A file created by passing a NFC-filename will come in NFD-form from `readdir()`. See [L<Unicode::Normalize>](#) for details of NFD/NFC.

Actually, Apple does not follow the Unicode NFD standard since not all character ranges are decomposed. The claim is that this avoids problems with round trip conversions from old Mac text encodings. See [L<Encode::UTF8Mac>](#) for details.

=head2 POSIX (Linux and other Unixes)

File systems might vary in what encoding is to be used for filenames. Since this module has no way to actually figure out what the is correct it goes with the best guess which is to assume filenames are encoding according to the current locale. Users are advised to always specify UTF-8 as the locale charset.

=head1 SEE ALSO

[L<I18N::Langinfo>](#), [L<Encode>](#), [L<Term::Encoding>](#)

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* [/libencode-locale-perl-1-05-orig-1-tar-gz/Encode-Locale-1.05/lib/Encode/Locale.pm](#)

1.334 libwww-perl 6.61-1

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```

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```
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```

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1.336 libtry-tiny-perl 0.31-1

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1.337 dumb-init 1.2.5-2

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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>
Upstream-Name: dumb-init
Source: <https://github.com/Yelp/dumb-init/>

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1.338 systemd-hwe 249.11.5

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1.339 systemd 249.11-0ubuntu3.12

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1.340 libssh 0.9.6-2ubuntu0.22.04.3

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1.341 promise-call-limit 3.0.1

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip

5.42, the complete

core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
*

- * A collection of File Manager and related routines
- *
- * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
- * with significant code contributions by Nitin Ganatra
- * (Apple Macintosh Developer Technical Support Emeritus)
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- *
- * Copyright 1997 Christopher Evans (cevens@poppybank.com)
- *
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- * -----
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- * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
- * homepage of Leonard Rosenthol leonardr@netcom.com)

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it

as public domain code.

1.348 diff 5.2.0

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=head1 NAME

File::MimeInfo::Cookbook - various code snippets

=head1 DESCRIPTION

Some code snippets for non-basic uses of the L<File::MimeInfo> module:

=over

=item B<Matching an extension>

A file does not have to actually exist in order to get a mimetype for it. This means that the following will work:

```
my $extension = '*.txt';
my $mimetype = mimetype( $extension );
```

=item B<Mimotyping an scalar>

If you want to find the mimetype of a scalar value you need magic

mimotyping; after all a scalar doesn't have a filename or inode.

What you need to do is to use IO::Scalar :

```
use File::MimeInfo::Magic;
use IO::Scalar;
```

```
my $io_scalar = new IO::Scalar \$data;
my $mimetype = mimetype( $io_scalar );
```

In fact most other C<IO::> will work as long as they support the C<seek()> and C<read()> methods. Of course if you want really obscure things to happen you can always write your own IO object and feed it in there.

Be

aware that when using a filehandle like this you need to set the C<:utf8> binmode yourself if appropriate.

=item B<Mimotyping a filehandle>

Regrettably for non-seekable filehandles like STDIN simply using an C<IO::> object will not work. You will need to buffer enough of the data for a proper mimotyping. For example you could mimetype data from STDIN like this:

```
use File::MimeInfo::Magic;
use IO::Scalar;

my $data;
read(STDIN, $data, $File::MimeInfo::Magic::max_buffer);
my $io_scalar = new IO::Scalar \$data;
my $mimetype = mimetype( $io_scalar );
```

Be aware that when using a filehandle like this you need to set the C<:utf8> binmode yourself if appropriate.

=item B<Creating a new filename>

Say you have a temporary file that you want to save with a more proper filename.

```
use File::MimeInfo::Magic qw#mimetype extensions#;
use File::Copy;
```

```
my $tmpfile = '/tmp/foo';
my $mimetype = mimetype($tmpfile);
my $extension = extensions($mimetype);
my $newfile = 'untitled1';
$newfile .= ".$extension" if length $extension;
move($tmpfile, $newfile);
```


=item B<Force the use of a certain database directory>

Normally you just need to add the dir where your mime database lives to either the XDG_DATA_HOME or XDG_DATA_DIRS environment variables for it to be found. But in some rare cases you may want to by-pass this system all together. Try one of the following:

```
@File::MimeInfo::DIRS = ('/home/me/share/mime');  
eval 'use File::MimeInfo';  
die if $@;
```

or:

```
use File::MimeInfo;  
@File::MimeInfo::DIRS = ('/home/me/share/mime');  
File::MimeInfo->rehash();
```

This can also be used for switching between databases at run time while leaving other XDG configuration stuff alone.

=back

=head1 AUTHOR

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=head1 SEE ALSO

L<File::MimeInfo>

=cut

Found in path(s):
* /libfile-mimeinfo-perl-0-31-orig-1-tar-gz/File-MimeInfo-0.31/lib/File/MimeInfo/Cookbook.pod
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::MimeInfo - Determine file type from the file name

=head1 SYNOPSIS

```
use File::MimeInfo;  
my $mime_type = mimetype($file);  
my $mime_type2 = mimetype('test.png');
```

=head1 DESCRIPTION

This module can be used to determine the mime type of a file. It tries to implement the freedesktop specification for a shared MIME database.

For this module shared-mime-info-spec 0.13 was used.

This package only uses the globs file. No real magic checking is used. The L<File::MimeInfo::Magic> package is provided for magic typing.

If you want to determine the mimetype of data in a memory buffer you should use L<File::MimeInfo::Magic> in combination with L<IO::Scalar>.

This module loads the various data files when needed. If you want to hash data earlier see the C<rehash> methods below.

=head1 EXPORT

The method C<mimetype> is exported by default.
The methods C<inodetype>, C<globs>, C<extensions>, C<describe>, C<mimetype_canon> and C<mimetype_isa> can be exported on demand.

=head1 METHODS

=over 4

=item C<new()>

Simple constructor to allow Object Oriented use of this module.
If you want to use this, include the package as C<use File::MimeInfo ();> to avoid importing sub C<mimetype()>.

=item C<mimetype(\$file)>

Returns a mimetype string for C<\$file>, returns undef on failure.

This method bundles C<inodetype> and C<globs>.

If these methods are unsuccessful the file is read and the mimetype defaults

to 'text/plain' or to 'application/octet-stream' when the first ten chars of the file match ascii control chars (white spaces excluded).
If the file doesn't exist or isn't readable C<undef> is returned.

=item C<inode(\$file)>

Returns a mimetype in the 'inode' namespace or undef when the file is actually a normal file.

=item C<globs(\$file)>

Returns a mimetype string for C<\$file> based on the filename and filename extensions.
Returns undef on failure. The file doesn't need to exist.

Behaviour

in list context (wantarray) is unspecified and will change in future releases.

=item C<default(\$file)>

This method decides whether a file is binary or plain text by looking at the first few bytes in the file. Used to decide between "text/plain" and "application/octet-stream" if all other methods have failed.

The spec states that we should check for the ascii control chars and let higher bit chars pass to allow utf8. We try to be more intelligent using perl utf8 support.

=item C<extensions(\$mimetype)>

In list context, returns the list of filename extensions that map to the given mimetype.
In scalar context, returns the first extension that is found in the database for this mimetype.

=item C<describe(\$mimetype, \$lang)>

Returns a description of this mimetype as supplied by the mime info database.
You can specify a language with the optional parameter C<\$lang>, this should be the two letter language code used in the xml files. Also you can set the global variable C<\$File::MimeInfo::LANG> to specify a language.

This method returns undef when no xml file was found (i.e. the mimetype doesn't exist in the database). It returns an empty string when the xml file doesn't contain a description in the language you specified.

I<Currently no real xml parsing is done, it trusts the xml files are nicely formatted.>

=item C<mimetype_canon(\$mimetype)>

Returns the canonical mimetype for a given mimetype.

Deprecated mimetypes are typically aliased to their canonical variants.

This method only checks aliases, doesn't check whether the mimetype exists.

Use this method as a filter when you take a mimetype as input.

=item C<mimetype_isa(\$mimetype)>

=item C<mimetype_isa(\$mimetype, \$mimetype)>

When give only one argument this method returns a list with mimetypes that are parent classes for this mimetype.

When given two arguments returns true if the second mimetype is a parent class of the first one.

This method checks the subclasses table and applies a few rules for implicit subclasses.

=item

C<has_mimeinfo_database()>

Check if there are mimeinfo database files available; returns 1 on success.

If you don't have the shared-mime-info package installed or not in the PATH or

C<@File::MimeInfo::DIRS> does not contain database directories, you will not get the successful reply.

New in version 0.30.

=item C<rehash()>

Rehash the data files. Glob information is preparsed when this method is called.

If you want to by-pass the XDG basedir system you can specify your database directories by setting C<@File::MimeInfo::DIRS>. But normally it is better to change the XDG basedir environment variables.

=item C<rehash_aliases()>

Rehashes the F<mime/aliases> files.

=item C<rehash_subclasses()>

Rehashes the F<mime/subclasses> files.

=back

=head1 DIAGNOSTICS

This module throws an exception when it can't find any data files, when it can't open a data file it found for reading or when a subroutine doesn't get enough arguments.

In the first case you either don't

have the freedesktop mime info database installed,
or your environment variables point to the wrong places,

in the second case you have the database installed, but it is broken
(the mime info database should logically be world readable).

=head1 TODO

Make an option for using some caching mechanism to reduce init time.

Make C<describe()> use real xml parsing ?

=head1 LIMITATIONS

Perl versions prior to 5.8.0 do not have the 'utf8' IO Layer, thus
for the default method and for reading the xml files
utf8 is not supported for these versions.

Since it is not possible to distinguish between encoding types (utf8, latin1, latin2 etc.)
in a straightforward manner only utf8 is supported (because the spec recommends this).

This module does not yet check extended attributes for a mimetype.
Patches for this are very welcome.

This module uses the FreeDesktop.org shared mime info database. On your desktop
linux this is typically pre-installed so it's not a problem. On your server
you can install
the shared-mime-info package via apt or dnf or apk or whatnot.

To install on macOS, you can install it like this:

```
brew install shared-mime-info
```

=head1 AUTHOR

Jaap Karssenberg E<lt>pardus@cpan.orgE<gt>

Maintained by Michiel Beijen E<lt>mb@x14.nlE<gt>

=head1 COPYRIGHT

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This program is free software; you can redistribute it and/or

modify it under the same terms as Perl itself.

=head1 SEE ALSO

L<File::BaseDir>,
L<File::MimeInfo::Magic>,
L<File::MimeInfo::Applications>,
L<File::MimeInfo::Rox>

=over 4

=item related CPAN modules

L<File::MMagic>

=item freedesktop specifications used

L<<http://www.freedesktop.org/wiki/Specifications/shared-mime-info-spec>>,
L<<http://www.freedesktop.org/wiki/Specifications/basedir-spec>>,
L<<http://www.freedesktop.org/wiki/Specifications/desktop-entry-spec>>

=item freedesktop mime database

L<<http://www.freedesktop.org/wiki/Software/shared-mime-info>>

=back

=cut

Found in path(s):

*

/libfile-mimeinfo-perl-0.31-orig-1-tar-gz/File-MimeInfo-0.31/lib/File/MimeInfo.pm

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

abstract: 'Determine file types'

author:

- 'Jaap Karssenberg <pardus@cpan.org>'

build_requires:

ExtUtils::MakeMaker: '0'

Test::More: '0.88'

configure_requires:

ExtUtils::MakeMaker: '6.30'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.62, CPAN::Meta::Converter version 2.150010'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'
name: File-MimeInfo
no_index:
directory:
- t
- inc
requires:
Carp: '0'
Encode::Locale: '0'
Exporter: '0'
Fcntl: '0'
File::BaseDir: '0.03'
File::DesktopEntry: '0.04'
Pod::Usage: '0'
perl: '5.006001'
resources:
bugtracker: <https://github.com/mbeijen/File-MimeInfo/issues>
repository: <https://github.com/mbeijen/File-MimeInfo>
version: '0.31'
x_contributors:
- 'Bernhard Rosenkr nzer <bero@lindev.ch>'
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- 'Michiel Beijen <mb@x14.nl>'
- 'Nikos Skalkotos <skalkoto@grnet.gr>'
- 'Nitish Bezzala <nbezzala@yahoo.com>'
- 'Oleg Kostyuk <cub.uanic@gmail.com>'
- 'Patrick Burroughs (Celti) <celti@celti.name>'
- 'Philippe Bruhat (BooK) <book@cpan.org>'
- 'Rudolf Leermakers <rudolf@hatsuseno.org>'
- 'Sean Smith <ssmith@ncsgraphics.com>'
- 'Stefan Seifert <nine@detonation.org>'
- 'brian m. carlson <sandals@crustytoothpaste.net>'
- 'gregor herrmann <gregoa@debian.org>'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

* /libfile-mimeinfo-perl-0-31-orig-1-tar-gz/File-MimeInfo-0.31/META.yml

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

=head1 NAME

File::MimeInfo::Rox - Open files by mimetype "Rox style"

=head1 SYNOPSIS

```

use File::MimeInfo::Magic;
use File::MimeInfo::Rox qw/:magic/;

# open some file with the appropriate program
mime_system($somefile);

# more verbose version
my $mt = mimetype($somefile)
    || die "Could not find mimetype for $somefile\n";
mime_system($somefile, $mt)
    || die "No program to open $somefile available\n";

```

=head1 DESCRIPTION

This module tries to mimic the behaviour of the rox file browser L<<http://rox.sf.net>> when "opening" data files. It determines the mime type and searches in rox's C<Choices> directories for a program to handle that mimetype.

See the rox documentation for an extensive discussion of this mechanism.

=head1 EXPORT

The methods C<mime_exec> and C<mime_system> are exported, if you use the export tag C<:magic> you get the same methods but L<File::MimeInfo::Magic> will be used for mimetype lookup.

=head1 ENVIRONMENT

The environment variable C<CHOICESPATH> is used when searching for rox's config dirs. It defaults to C<\${ENV{HOME}}/Choices:/usr/local/share/Choices:/usr/share/Choices>

=head1 METHODS

=over 4

=item C<mime_system(\$file)>

=item C<mime_system(\$file, \$mimetype, @_)>

Try to open C<\$file> with the appropriate program for files of it's mimetype. You can use C<\$mimetype> to force the mimetype. Also if you already know the mimetype it saves a lot of time

to just tell it.

If either the mimetype couldn't be determined or no appropriate program could be found C<undef> is returned.
If the actual L<system> fails an exception is raised.

All remaining arguments are passed on to the handler.

=item C<mime_exec(\$file)>

=item C<mime_exec(\$file, \$mimetype, @_)>

Like C<mime_system()> but uses L<exec> instead of L<system>, so it B<never returns> if successful.

=item C<suggest_script_name(\$mimetype)>

Returns the list C<(\$dir, \$file)> for the suggested place to write new script files (or symlinks) for mimetype C<\$mimetype>. The suggested dir doesn't need to exist.

=back

=head1 AUTHOR

Jaap Karssenberg E<lt>pardus@cpan.orgE<gt>
Maintained by Michiel Beijen E<lt>mb@x14.nlE<gt>

=head1 COPYRIGHT

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

=head1 SEE ALSO

L<File::MimeInfo>,
L<File::MimeInfo::Magic>,
L<http://rox.sourceforge.net>

=cut

Found in path(s):
* /libfile-mimeinfo-perl-0-31-orig-1-tar-gz/File-MimeInfo-0.31/lib/File/MimeInfo/Rox.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::MimeInfo::Magic - Determine file type with magic

=head1 SYNOPSIS

```
use File::MimeInfo::Magic;  
my $mime_type = mimetype($file);
```

=head1 DESCRIPTION

This module inherits from L<File::MimeInfo>, it is transparent to its functions but adds support for the freedesktop magic file.

Magic data is hashed when you need it for the first time.
If you want to force hashing earlier use the C<rehash()> function.

=head1 EXPORT

The method C<mimetype> is exported by default. The methods C<magic>, C<inodetype>, C<globs> and C<describe> can be exported on demand.

=head1 METHODS

See also L<File::MimeInfo> for methods that are inherited.

=over 4

=item C<mimetype(\$file)>

Returns a mime-type string for C<\$file>, returns undef on failure.

This method bundles C<inodetype()>, C<globs()> and C<magic()>.

Magic rules with an priority of 80 and higher are checked before C<globs()> is called, all other magic rules afterwards.

If this doesn't work the file is read and the mime-type defaults to 'text/plain' or to 'application/octet-stream' when the first ten chars of the file match ascii control chars (white spaces excluded).
If the file doesn't exist or isn't readable C<undef> is returned.

If C<\$file> is an object reference only C<magic> and the default method are used. See below for details.

=item C<magic(\$file)>

Returns a mime-type string for C<\$file> based on the magic rules,

returns undef on failure.

C<\$file> can be an object reference, in that case it is supposed to have a C<seek()> and a C<read()> method. This allows you for example to determine the mimetype of data in memory by using L<IO::Scalar>.

Be aware that when using a filehandle or an C<IO::> object you need to set the C<:utf8> binmode yourself if appropriate.

=item C<rehash()>

Rehash the data files. Glob and magic information is preparsed when this method is called.

If you want to by-pass the XDG basedir system you can specify your database directories by setting C<@File::MimeInfo::DIRS>. But normally it is better to change the XDG basedir environment variables.

=item C<default>

=item C<describe>

=item C<extensions>

=item C<globs>

=item C<inodetype>

These routines are imported from L<File::MimeInfo>.

=back

=head1 SEE ALSO

L<File::MimeInfo>

=head1 LIMITATIONS

Only word sizes of 1, 2 or 4 are supported. Any other word size is ignored and will cause a warning.

=head1 AUTHOR

Jaap Karssenberg E<lt>pardus@cpan.orgE<gt>
Maintained by Michiel Beijen E<lt>mb@x14.nlE<gt>

=head1 COPYRIGHT

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Found in path(s):

* /libfile-mimeinfo-perl-0-31-orig-1-tar-gz/File-MimeInfo-0.31/lib/File/MimeInfo/Magic.pm

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

=head1 NAME

mimeopen - Open files by mimetype

=head1 SYNOPSIS

mimeopen [options] [-] files

=head1 DESCRIPTION

This script tries to determine the mimetype of a file and open it with the default desktop application. If no default application is configured the user is prompted with an "open with" menu in the terminal.

To use this script you need the freedesktop mime-info database and the freedesktop desktop-file-utils package. See L<File::MimeInfo::Applications(3)> for more details.

=head1 OPTIONS

=over 4

=item B<-a>, B<--ask>

Do not execute the default application but ask which application to run. This does not change the default application.

=item B<-d>, B<--ask-default>

Let the user choose a new default program for given files.

=item B<-n>, B<--no-ask>

Don't ask the user which program to use. Choose the default program or the first program known to handle the file mimetype. This does not set the default application.

=item B<-M>, B<--magic-only>

Do not check for extensions, globs or inode type, only look at the content of the file. This is particularly useful if for some reason you don't trust the name or the extension a file has.

=item B<--database>=I<mimedir>:I<mimedir>:...

Force the program to look in these directories for the shared mime-info database. The directories specified by the basedir specification are ignored.

=item B<-D>, B<--debug>

Print debug information about how the mimetype was determined.

=item B<-h>, B<--help>

=item B<-u>, B<--usage>

Print a help message and exits.

=item B<-v>, B<--version>

Print the version of the program and exit.

=back

=head1 DEPRECATED OPTIONS

=over 4

=item B<-L>, B<--dereference>

Follow symbolic links.

Deprecated because this is the logical default for this command.

Ignored silently.

=back

=head1 BUGS

If you find bugs, please file them in our Github issue tracker at L<<https://github.com/mbeijen/File-MimeInfo/issues>>.

See File::MimeInfo::Applications(3)
and File::DesktopEntry(3)
for some limitations.

=head1 AUTHOR

Jaap Karssenberg E<lt>pardus@cpan.orgE<gt>

Maintained by Michiel Beijen E<lt>mb@x14.nlE<gt>

=head1 COPYRIGHT

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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

=head1 SEE ALSO

L<mimetype(1)>,

L<update-mime-database(1)>,

L<update-desktop-database(1)>,

L<File::MimeInfo(3)>,

L<File::MimeInfo::Applications(3)>

Found in path(s):

* /libfile-mimeinfo-perl-0-31-orig-1-tar-gz/File-MimeInfo-0.31/mimeopen

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

=head1 NAME

mimetype - Determine file type

=head1 SYNOPSIS

mimetype [options] [-] files

=head1 DESCRIPTION

This script tries to determine the mime type of a file using the
Shared MIME-info database. It is intended as a kind of I<file(1)> work-alike,
but uses mimetypes instead of descriptions.

If one symlinks the I<file> command to I<mimetype> it will behave
a little more compatible, see L<!--file-compat>.

Commandline options to specify alternative magic files are not
implemented the same because of the conflicting data formats.
Also the wording of the descriptions will differ.

For naming switches I followed the manpage of file(1) version 4.02

when possible. They seem to differ completely from the spec in the 'utilities' chapter of IEEE Std 1003.1-2001 (POSIX).

=head1 OPTIONS

=over 4

=item B<-a>, B<--all>

Show output of all rules that match the file.

TODO: this method now just returns one match for each method (globs, magic, etc.).

=item B<-b>, B<--brief>

Do not prepend filenames to output lines (brief mode).

=item B<--database>=I<mimedir>:I<mimedir>:...

Force the program to look in these directories for the shared mime-info database. The directories specified by the basedir specification are ignored.

=item B<-d>, B<--describe>

Print file descriptions instead of mime types, this is the default when using L<!--file-compat>.

=item B<-D>, B<--debug>

Print debug information about how the mimetype was determined.

=item B<-f> I<namefile>, B<--namefile>=I<namefile>

Read the names of the files to be examined from the file 'namefile' (one per line) before the argument list.

=item B<--file-compat>

Make mimetype behave a little more L<file(1)> compatible. This is turned on automatically when you call mimetype by a link called 'file'.

A single '-' won't be considered a separator between options and filenames anymore, but becomes identical to L<!--stdin>. (You can still use '--' as separator,

but

that is not backward compatible with the original file command.)

Also the default becomes to print descriptions instead of mimetypes.

=item B<-F> I<string>, B<--separator>=I<string>

Use string as custom separator between the file name and its mimetype or description, defaults to ':' .

=item B<-h>, B<--help>

=item B<-u>, B<--usage>

Print a help message and exits.

=item B<-i>, B<--mimetype>

Use mime types, opposite to L<!--describe>, this is the default when `_not_` using L<!--file-compat>.

=item B<-L>, B<--dereference>

Follow symbolic links.

=item B<-l> I<code>, B<--language>=I<code>

The language attribute specifies a two letter language code, this makes descriptions being outputted in the specified language.

=item B<-M>, B<--magic-only>

Do not check for extensions, globs or inode type, only look at the content of the file. This is particularly useful if for some reason you don't trust the name or the extension a file has.

=item B<-N>, B<--noalign>

Do not align
output fields.

=item B<--output-format>

If you want an alternative output format, you can specify a format string containing the following escapes:

%f for the filename

%d description

%m mime type

Alignment is not available when using this,
you need to post-process the output to do that.

=item B<--stdin>

Determine type of content from STDIN, less powerful than normal file checking
because it only uses magic typing. This will happen also if the STDIN filehandle
is a pipe.

To use this option L<IO::Scalar> needs to be installed.

=item B<-v>, B<--version>

Print the version of the program and exit.

=back

=head1 ENVIRONMENT

=over 4

=item XDG_DATA_HOME

=item XDG_DATA_DIRS

These variables can list base directories to search for data files. The shared
mime-info will be expected in the "mime" sub directory of one of these
directories. If these are not set, there will be searched for the
following directories:

\$HOME/.local/share/mime
/usr/local/share/mime
/usr/share/mime

See

also the "XDG Base Directory Specification"

L<<http://freedesktop.org/Standards/basedir-spec>>

=back

=head1 FILES

The base dir for all data files is determined by two environment variables,
see L</ENVIRONMENT>.

=over 4

=item F<BASE/mime/packages/SOURCE.xml>

All other files are compiled from these source files. To re-compile them use B<update-mime-database(1)>.

=item F<BASE/mime/globs>

Compiled information about globs.

=item F<BASE/mime/magic>

Compiled information about magic numbers.

=item F<BASE/mime/MEDIA/SUBTYPE.xml>

Descriptions of a mimetype in multiple languages, used for the L</--describe> switch.

=back

=head1 DIAGNOSTICS

If a file has an empty mimetype or an empty description, most probably the file doesn't exist and the given name doesn't match any globs. An empty description can also mean that there is no description available in the language you specified.

The program exits with a non-zero exit value if either the commandline arguments failed,
a module it depends on wasn't found or the shared
mime-info database wasn't accessible. See L<File::MimeInfo> for more details.

=head1 TODO

The '--all' switch doesn't really show all matches, but only one per mime-typing method. This needs to be implemented in the modules first.

=head1 BUGS

If you find bugs, please file them in our Github
issue tracker at L<<https://github.com/mbeijen/File-MimeInfo/issues>>.

B<mimetype> doesn't provide a switch for looking inside compressed files because it seems to me that this can only be done by un-compressing the file, something that defeats the purpose. On the other hand the option should exist for strict compatibility with file(1). Possibly a subclass should be made for this one day.

=head1 AUTHOR

Jaap Karssenberg E<lt>pardus@cpan.orgE<gt>

Maintained by Michiel Beijen E<lt>mb@x14.nlE<gt>

=head1 COPYRIGHT

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it under the same terms as Perl.

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but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

=head1 SEE ALSO

L<file(1)>,

L<update-mime-database(1)>,

L<File::MimeInfo(3)>,

L<http://freedesktop.org/Software/shared-mime-info>

Found in path(s):

* /libfile-mimeinfo-perl-0-31-orig-1-tar-gz/File-MimeInfo-0.31/mimetype

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

File-MimeInfo

This module can be used to determine the mime type of a file; it's a
replacement for [File::MMagic](https://metacpan.org/pod/File::MMagic)
trying to implement the freedesktop specification for using the shared
mime-info database. The package comes with a script called `mimetype`
that can be used as a `file(1)` work-alike.

Because this module uses the FreeDesktop MIME database, it's most
suited for use in perl scripts that run on a desktop OS; in fact,
this module is typically pre-installed on Debian and Ubuntu OSes
so you can use its command line script `mimeopen` to open files in
the GUI just like you can use `open` on macOS.

INSTALLATION

To install this module type the following:

```
perl Makefile.PL
```

```
make
```

```
make test
```

make install

DEPENDENCIES

This module expects the freedesktop mime database to be installed, some linux distributions include it, otherwise it can be obtained from:

<http://freedesktop.org/Software/shared-mime-info>

This module requires these other modules which can be obtained from the [CPAN](<https://metacpan.org>) if they are not already installed on your system:

- * Carp
- * Exporter
- * Fcntl
- * Pod::Usage
- * File::Basename
- * File::BaseDir
- * File::DesktopEntry

COPYRIGHT AND LICENCE

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Found in path(s):

* /libfile-mimeinfo-perl-0-31-orig-1-tar-gz/File-MimeInfo-0.31/README.md

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

=head1 NAME

File::MimeInfo::Applications - Find programs to open a file by mimetype

=head1 SYNOPSIS

```
use File::MimeInfo::Magic;  
use File::MimeInfo::Applications;
```

```
my $file = '/foo/bar';  
my $mimetype = mimetype($file)  
    || die "Could not find mimetype for $file\n";
```

```
my ($default, @other) = mime_applications($mimetype);
```

```
if (defined $default) {
```

```

$default->system($file)
}
else {
    # prompt user with choice from @others
    # ...
}

```

=head1 DESCRIPTION

This module tries to find applications that can open files with a certain mimetype. This is done in the way suggested by the freedesktop Desktop Entry specification. This module is intended to be compatible with file managers and other applications that implement this specification.

This module depends on L<File::DesktopEntry> being installed.

To use this module effectively you need to have the desktop-file-utils package from freedesktop and run update-desktop-database after installing new .desktop files. See L<<http://www.freedesktop.org/wiki/Software/desktop-file-utils>>.

At the moment of writing this module is compatible with the way Nautilus (Gnome) and with Thunar (XFCE) handle applications for mimetypes. I understand KDE is still working on implementing the freedesktop mime specifications but will follow. At the very least all perl applications using this module are using the same defaults.

=head1 EXPORT

All methods are exported by default.

=head1 METHODS

=over 4

=item C<mime_applications(MIMETYPE)>

Returns an array of L<File::DesktopEntry> objects. The first is the default application for this mimetype, the rest are applications that say they can handle this mimetype.

If the first result is undefined there is no default application and it is good practice to ask the user which application he wants to use.

=item C<mime_applications_all(MIMETYPE)>

Like `C<mime_applications()>` but also takes into account applications that can open mimetypes from which `MIMETYPE` inherits. Parent mimetypes tell something about the data format, all code inherits from `text/plain` for example.

=item `C<mime_applications_set_default(MIMETYPE, APPLICATION)>`

Save a default application for this mimetype. This action will affect other applications using the same mechanism to find a default application.

`APPLICATION` can either be a `File::DesktopEntry` object or the basename of a `.desktop` file.

=item `C<mime_applications_set_custom(MIMETYPE, COMMAND)>`

Save a custom shell command as default application.
Generates a `DesktopEntry` file on the fly and calls `C<mime_applications_set_custom>`.
Returns the `DesktopEntry` object.

No checks are done at all on `COMMAND`.
It should however contain at least one word.

=back

=head1 NOTES

This module looks for associations files in the order specified in version 1.0 of the MIME applications specification. It will also attempt a last-resort fallback to the legacy file `F<$XDG_DATA_HOME/applications/defaults.list>`.
In all cases, it will only write to the recommended per-user defaults file located at `F<$XDG_CONFIG_HOME/mimeapps.list>`.

=head1 AUTHOR

Jaap Karssenberg `E<lt>pardus@cpan.orgE<gt>`
Maintained by Michiel Beijen `E<lt>mb@x14.nlE<gt>`

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=head1 SEE ALSO

L<File::DesktopEntry>,
L<File::MimeInfo>,
L<File::MimeInfo::Magic>,
L<File::BaseDir>

L<<http://freedesktop.org/wiki/Software/desktop-file-utils/>>
L<<http://freedesktop.org/wiki/Specifications/mime-apps-spec/>>

=cut

Found in path(s):

* /libfile-mimeinfo-perl-0-31-orig-1-tar-gz/File-MimeInfo-0.31/lib/File/MimeInfo/Applications.pm

1.354 libfile-desktopentry-perl 0.22-2

1.354.1 Available under license :

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abstract: 'Module to handle .desktop files'

author:

- 'Jaap Karssenberg <pardus@cpan.org>'

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '6.30'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.1, CPAN::Meta::Converter version 2.150005'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: File-DesktopEntry

no_index:

directory:

- t

- inc

requires:

Carp: '0'

Encode: '0'

File::BaseDir: '0.03'

File::Path: '0'

File::Spec: '0'

URI::Escape: '0'

perl: '5.008006'

resources:

bugtracker: <https://github.com/mbeijen/File-DesktopEntry/issues>

repository: <https://github.com/mbeijen/File-DesktopEntry>

version: '0.22'

x_serialization_backend: 'CPAN::Meta::YAML version 0.017'

Found in path(s):

* /libfile-desktopentry-perl-0-22-orig-1-tar-gz/File-DesktopEntry-0.22/META.yml

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=head1 LIMITATIONS

If you try to exec a remote file with an application that can only handle files on the local file system we should -according to the spec- download the file to a temp location. This is not supported. Use the `C<wants_uris()` method to check if an application supports urls.

The values of the various Desktop Entry keys are not parsed (except for the Exec key). This means that booleans will be returned as the strings "true" and "false" and lists will still be ";" separated.

If the icon is given as name and not as path it should be resolved for the `C<%i>` code in the Exec key. We need a separate module for the icon spec to deal with this.

According to the spec comments can contain any encoding. However since this module read files as utf8, invalid UTF-8 characters in a comment will cause an error.

There is no support for Legacy-Mixed Encoding. Everybody is using utf8 now ... right ?

=head1 AUTHOR

Jaap

Karssenber (Pardus) E<lt>pardus@cpan.orgE<gt>

Maintained by Michiel Beijen E<lt>michielb@cpan.orgE<gt>

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=head1 SEE ALSO

L<<http://standards.freedesktop.org/desktop-entry-spec/desktop-entry-spec-latest.html>>

L<File::BaseDir> and L<File::MimeInfo::Applications>

L<X11::FreeDesktop::DesktopEntry>

=cut

Found in path(s):

* /libfile-desktopentry-perl-0-22-orig-1-tar-gz/File-DesktopEntry-0.22/lib/File/DesktopEntry.pm

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File-DesktopEntry

You can use this module to work with ``.desktop`` files as specified by the [Freedesktop.org](http://freedesktop.org) specification.

INSTALLATION

If you are on Linux, the most convenient way to install this module is via your package manager. On Debian or Ubuntu:

```
sudo apt-get install libfile-desktopentry-perl
```

on Fedora, RHEL or CentOS:

```
sudo yum install perl-File-DesktopEntry
```

note: on RHEL or CentOS you'd need to first install [EPEL](<https://fedoraproject.org/wiki/EPEL>):

```
sudo yum install epel-release
```

If you can't install from a package manager, the best solution is installation using your cpan client. This will take care of installing any dependencies:

```
cpan File::DesktopEntry
```

To install this module manually, type the following:

```
perl Makefile.PL
make
make test
make install
```

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Found in path(s):

* /libfile-desktopentry-perl-0.22-orig-1-tar-gz/File-DesktopEntry-0.22/README.md

1.355 libipc-system-simple-perl 1.30-1

1.355.1 Available under license :

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1.356 tilix 1.9.4-2build1

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- * /libx11-protocol-perl-0-56-orig-tar-gz/X11-Protocol-0.56/Protocol/Connection/Socket.pm
- * /libx11-protocol-perl-0-56-orig-tar-gz/X11-Protocol-0.56/Protocol/Constants.pm

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X11::Protocol, version 0.56

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Module list information:123456789 123456789 123456789 123456789 12345

X11::Protocol bdpO Raw interface to X Window System servers

X11::Keysyms bdpf X11 key symbols (translation of keysymdef.h)

X11::Auth bdpO Read and handle X11 '.Xauthority' files

New in this version: 0.56

- Fix infinite loop regression in robust_req in 0.54 caused by handle_input change (found by Scott Smedley)

X11::Protocol and the related modules in this distribution are a rough equivalent of Xlib (libX11.a, with a bit of Xau and Xext mixed in) used for drawing windows on and otherwise manipulating X11 window servers.

OTHER THINGS YOU NEED

- * perl 5.002 (not tested recently; recent versions have only been tested with 5.6.1 and 5.8.*)

- * an X11 server (any version; it also doesn't have to be on the same computer, but you must be able to connect to it over a socket. For Win32 users, a free X server is apparently available from <http://sources.redhat.com/win32-x11/> though the author hasn't tried it)

* documentation about the X protocol (or at least Xlib, though its interface is subtly different). O'Reilly has a good book, and the full X distribution includes the definitive specification. As of this writing, the latest version can be obtained from the X.org CVS repository at:

http://cvs.freedesktop.org/*checkout*/xorg/xc/doc/hardcopy/XProtocol/proto.PS.gz

For Debian users, this is in the xspecs package.

Speaking

of Debian, this module is also available as the Debian package "libx11-protocol-perl"; thanks to tony mancill for maintaining it.

***** NOTE *****

* This module's interface is admittedly a little cumbersome, but its low level approach is intentional -- a higher-level interface, ideally more object-oriented, easier to use, and plug-compatible with an XS Xlib interface, would be a significant different project. (A project that this author made an abortive start at, but is unlikely to finish any time soon.)

* The interface has become stable, though mainly through the passage of time rather than through extensive debugging. For better or worse, it probably isn't going to change much in the future.

BUILDING

Like any other module:

```
% perl Makefile.PL
% make
% make test
% make install
```

DOCUMENTATION

See the PODs at the end of each .pm file (converted into man pages by the makefile) for detailed information.

EXAMPLES

test.pl

is a good example of a complete program; it's also a translation of an Xlib based program (in this case, 'basicwin' from O'Reilly & Associates's Xlib Programming Manual).

eg/anim.pl demonstrates buffered animation (needs IO::Select).

eg/full_test.pl uses just about every request in the protocol. You might not want to run it, since it can do weird things to your display, but it can show prototype calls if the documentation is unclear.

eg/long-run.pl is a program that runs for a long time and allocates many windows, as a stress-test of the resource-allocation code.

eg/random-win.pl demonstrates how to handle requests that might cause errors, by picking random resource identifiers and trying to paint over them with randomly-colored rectangles if they're windows.

eg/render-clock.pl uses the Render extension to draw an analog clock. It's a bit spiffier than "xclock -render", in the author's opinion, but falls short of fdclock.

eg/render-test.pl is like eg/full_test.pl,
but just for the Render
extension.

eg/teletype.pl shows how it's possible to connect to more than one server at once (needs IO::Select).

eg/widgets* are four examples that all do the same thing, with different tools. They demonstrate all the techniques needed to implement two simple custom widgets, a scroll bar and a progress meter, with the different options available for X11 programming from Perl:

- widgets1.pl uses X11::Protocol directly.
- widgets2.pl uses X11::Xlib from Ken Fox's X11-Motif distribution. Unfortunately, even the latest alpha version of X11-Motif I could find is missing interfaces for all the needed Xlib structures, so the code has to play games with pack() to get some calls to work. This may mean that the example may not work correctly on platforms whose Xlib structures are laid out differently than the author's Linux x86 box.
- widgets3.pl is an example of how programming X11::Protocol would be nicer with an object-oriented interface. It's a blatant ploy to get someone else interested in picking up the half-finished library it depends on, which is not included in this distribution (email me if you're interested).
- widgets.c is a C Xlib version of the same functionality, for comparison.

eg/wintree.pl is a small utility that acts like a cross between xlsclients, xwininfo, and pstree, showing the hierarchy of windows and their parents. Takes a window ID, or by default starts at the root. "-g" includes geometries, "-v" uses VT100 line drawing characters. Beware that it hardcodes some assumptions about how certain X servers encode resource IDs.

SEE ALSO

This is by no means the only way to put windows up on an X server from Perl.

* The most popular and portable windowing interface for Perl is Perl/Tk, available as the Tk module from CPAN.

* The Motif widget set, as well as some support for other standard X libraries, can be accessed using the X11::Motif modules, available from CPAN. An alpha version is also available directly from the author's homepage at <http://www.vulpes.com/X11-Motif-1.2a8.tar.gz>.

* Several other X widgets sets have Perl interfaces, including GTK (the Gtk module), Qt (the PerlQt module), wxWindows (the Wx module) and Sx (a simplified Athena wrapper, available with the similarly named module).

* For testing or automating the operation of other programs, the Xlib-based X11::GUITest module has more specialized support, including for the XTEST extension, than X11::Protocol.

Send questions, bug reports, and feature requests to me, Stephen McCamant <SMCCAM@cpan.org>.

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- * /libx11-protocol-perl-0-56-orig-tar-gz/X11-Protocol-0.56/Protocol/Connection/UNIXFH.pm

1.358 libfile-basedir-perl 0.09-1

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```

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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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

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1.359 libtie-ixhash-perl 1.23-2.1

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abstract: ordered associative arrays for Perl

author:

- Gurusamy Sarathy gsar@umich.edu

build_requires:

Test::More: 0

dynamic_config: 1

generated_by: 'Module::Build version 0.4003, CPAN::Meta::Converter version 2.112621'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Tie-IxHash

provides:

Tie::IxHash:

file: lib/Tie/IxHash.pm

version: 1.23
requires:
perl: 5.005
resources:
license: <http://dev.perl.org/licenses/>
repository: [git://github.com/chorny/Tie-IxHash.git](https://github.com/chorny/Tie-IxHash.git)
version: 1.23

Found in path(s):
* /libtie-ixhash-perl-1-23-orig-1-tar-gz/Tie-IxHash-1.23/META.yml
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=head1 NAME

Tie::IxHash - ordered associative arrays for Perl

=head1 SYNOPSIS

```
# simple usage
use Tie::IxHash;
tie HASHVARIABLE, 'Tie::IxHash' [, LIST];

# OO interface with more powerful features
use Tie::IxHash;
TIEOBJECT = Tie::IxHash->new( [LIST] );
TIEOBJECT->Splice( OFFSET [, LENGTH [, LIST]] );
TIEOBJECT->Push( LIST );
TIEOBJECT->Pop;
TIEOBJECT->Shift;
TIEOBJECT->Unshift( LIST );
TIEOBJECT->Keys( [LIST] );
TIEOBJECT->Values( [LIST] );
TIEOBJECT->Indices( LIST );
TIEOBJECT->Delete( [LIST] );
TIEOBJECT->Replace( OFFSET, VALUE, [KEY] );
TIEOBJECT->Reorder( LIST );
TIEOBJECT->SortByKey;
TIEOBJECT->SortByValue;
TIEOBJECT->Length;
```

=head1 DESCRIPTION

This Perl module implements Perl hashes that preserve the order in which the hash elements were added. The order is not affected when values corresponding to existing keys in the IxHash

are changed. The elements can also be set to any arbitrary supplied order. The familiar perl array operations can also be performed on the IxHash.

=head2 Standard C<TIEHASH> Interface

The standard C<TIEHASH> mechanism is available. This interface is recommended for simple uses, since the usage is exactly the same as regular Perl hashes after the C<tie> is declared.

=head2 Object Interface

This module also provides an extended object-oriented interface that can be used for more powerful operations with the IxHash. The following methods are available:

=over 8

=item FETCH, STORE, DELETE, EXISTS

These standard C<TIEHASH> methods mandated by Perl can be used directly. See the C<tie> entry in perlfunc(1) for details.

=item Push, Pop, Shift, Unshift, Splice

These additional methods resembling Perl functions are available for operating on key-value pairs in the IxHash. The behavior is the same as the corresponding perl functions, except when a supplied hash key already exists in the hash. In that case, the existing value is updated but its order is not affected. To unconditionally alter the order of a supplied key-value pair, first C<DELETE> the IxHash element.

=item Keys

Returns an array of IxHash element keys corresponding to the list of supplied indices. Returns an array of all the keys if called without arguments. Note the return value is mostly only useful when used in a list context (since perl will convert it to the number of elements in the array when used in a scalar context, and that may not be very useful).

If a single argument is given, returns the single key corresponding to the index. This is usable in either scalar or list context.

=item Values

Returns an array of IxHash element values corresponding to the list of supplied indices. Returns an array of all the values if called without arguments. Note the return value is mostly only useful when used in a list context (since perl will convert it to the number of elements in the array when used in a scalar context, and that may not be very useful).

If a single argument is given, returns the single value corresponding to the index. This is usable in either scalar or list context.

=item Indices

Returns an array of indices corresponding to the supplied list of keys. Note the return value is mostly only useful when used in a list context (since perl will convert it to the number of elements in the array when used in a scalar context, and that may not be very useful).

If a single argument is given, returns the single index corresponding to the key. This is usable in either scalar or list context.

=item Delete

Removes elements with the supplied keys from the IxHash.

=item Replace

Substitutes the IxHash element at the specified index with the supplied value-key pair. If a key is not supplied, simply substitutes the value at index with the supplied value. If an element with the supplied key already exists, it will be removed from the IxHash first.

=item Reorder

This method can be used to manipulate the internal order of the IxHash elements by supplying a list of keys in the desired order. Note however, that any IxHash elements whose keys are not in the list will be removed from the IxHash.

=item Length

Returns the number of IxHash elements.

=item SortByKey

Reorders the IxHash elements by textual comparison of the keys.

=item SortByValue

Reorders the IxHash elements by textual comparison of the values.

=item Clear

Resets the IxHash to its pristine state: with no elements at all.

=back

=head1 EXAMPLE

```
use Tie::IxHash;

# simple interface
$t = tie(%myhash, 'Tie::IxHash', 'a' => 1, 'b' => 2);
%myhash = (first => 1, second => 2, third => 3);
$myhash{fourth} = 4;
@keys = keys %myhash;
@values = values %myhash;
print("y") if exists $myhash{third};

# OO interface
$t = Tie::IxHash->new(first => 1, second => 2, third => 3);
$t->Push(fourth => 4); # same as $myhash{'fourth'} = 4;
($k, $v) = $t->Pop;
# $k is 'fourth', $v is 4
$t->Unshift(neg => -1, zeroth => 0);
($k, $v) = $t->Shift; # $k is 'neg', $v is -1
@oneandtwo = $t->Splice(1, 2, foo => 100, bar => 101);

@keys = $t->Keys;
@values = $t->Values;
@indices = $t->Indices('foo', 'zeroth');
@itemkeys = $t->Keys(@indices);
@itemvals = $t->Values(@indices);
$t->Replace(2, 0.3, 'other');
$t->Delete('second', 'zeroth');
$len = $t->Length; # number of key-value pairs

$t->Reorder(reverse @keys);
$t->SortByKey;
$t->SortByValue;
```

=head1 BUGS

You cannot specify a negative length to C<Splice>. Negative indexes are OK,

though.

=head1 NOTE

Indexing always begins at 0 (despite the current C<\$[> setting) for all the functions.

=head1 TODO

Addition of elements with keys that already exist to the end of the IxHash must be controlled by a switch.

Provide C<TIEARRAY> interface when it stabilizes in Perl.

Rewrite using XSUBs for efficiency.

=head1 AUTHOR

Gurusamy Sarathy
gsar@umich.edu

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modify it under the same terms as Perl itself.

=head1 VERSION

Version 1.23

=head1 SEE ALSO

perl(1)

=cut

Found in path(s):

* /libtie-ixhash-perl-1-23-orig-1-tar-gz/Tie-IxHash-1.23/lib/Tie/IxHash.pm

1.360 libxml-twig-perl 3.52-1

1.360.1 Available under license :

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=head1 NAME

xml_grep - grep XML files looking for specific elements

=head1 SYNOPSIS

xml_grep [options] <file list>

or

xml_grep <xpath expression> <file list>

By default you can just give C<xml_grep> an XPath expression and a list of files, and get an XML file with the result.

This is equivalent to writing

xml_grep --group_by_file file --pretty_print indented --cond <file list>

=head1 OPTIONS

=over 4

=item B<--help>

brief help message

=item B<--man>

full documentation

=item B<--Version>

display the tool version

=item B<--root> <cond>

look for and return xml chunks matching <cond>

if neither C<--root> nor C<--file> are used then the element(s) that trigger the C<--cond> option is (are) used. If C<--cond> is not used then all elements matching the <cond> are returned

several C<--root> can be provided

=item B<--cond> <cond>

return the chunks (or file names) only if they contain elements matching
<cond>

several C<--cond> can be provided (in which case they are OR'ed)

=item B<--files>

return only file names (do not generate an XML output)

usage of this option precludes using any of the options that define the XML output:
C<--roots>, C<--encoding>, C<--wrap>, C<--group_by_file> or C<--pretty_print>

=item B<--count>

return only the number of matches in each file

usage of this option precludes using any of the options that define the XML output:
C<--roots>, C<--encoding>, C<--wrap>, C<--group_by_file> or C<--pretty_print>

=item B<--strict>

without this option parsing errors are reported to STDOUT and the file skipped

=item B<--date>

when on (by default) the wrapping element get a C<date> attribute that gives
the date the tool was run.

with C<--nodate> this attribute is not added, which can be useful if you need
to compare 2 runs.

=item B<--encoding> <enc>

encoding of the xml output (utf-8 by default)

=item B<--nb_results> <nb>

output only <nb> results

=item B<--by_file>

output
only <nb> results by file

=item B<--wrap> <tag>

wrap the xml result in the provided tag (defaults to 'xml_grep')

If wrap is set to an empty string (C<--wrap ">") then the xml result is not wrapped at all.

=item B<--nowrap>

same as using C<--wrap ">": the xml result is not wrapped.

=item B<--descr> <string>

attributes of the wrap tag (defaults to C<< version="<VERSION>" date="<date>" >>)

=item B<--group_by_file> <optional_tag>

wrap results for each files into a separate element. By default that element is named C<file>. It has an attribute named C<filename> that gives the name of the file.

the short version of this option is B<-g>

=item B<--exclude> <condition>

same as using C<-v> in grep: the elements that match the condition are excluded from the result, the input file(s) is (are) otherwise unchanged

the short form of this option is B<-v>

=item B<--pretty_print> <optional_style>

pretty print the output using XML::Twig styles ('C<indented>', 'C<record>' or 'C<record_c>' are probably what you are looking for)

if the option is used but no style is given then 'C<indented>' is used

short form for this argument is B<-s>

=item B<--text_only>

Displays the text of the results, one by line.

=item B<--html>

Allow HTML input, files are converted using HTML::TreeBuilder

=item B<--Tidy>

Allow HTML input, files are converted using HTML::Tidy

=back

=head2 Condition Syntax

<cond> is an XPath-like expression as allowed by XML::Twig to trigger handlers.

examples:

'para'

'para[@compact="compact"]'

'*[@urgent]'

'*[@urgent="1"]'

'para[string()="WARNING"]'

see XML::Twig for a more complete description of the <cond> syntax

options are processed by Getopt::Long so they can start with '-' or '--'
and can be abbreviated (C<-r> instead of C<--root> for example)

=head1 DESCRIPTION

B<xml_grep> does a grep on XML files. Instead of using regular expressions it uses XPath expressions (in fact the subset of XPath supported by XML::Twig)

the results can be the names of the files or XML elements containing matching elements.

=head1 SEE ALSO

XML::Twig Getopt::Long

=head1 LICENSE

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=head1 AUTHOR

Michel Rodriguez <mirod@xmltwig.com>

Found in path(s):

* /libxml-twig-perl-3-52-orig-1-tar-gz/XML-Twig-3.52/tools/xml_grep/xml_grep

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use strict;

```

use warnings; # > perl 5.5

# This is created in the caller's space
# I realize (now!) that it's not clean, but it's been there for 10+ years...
BEGIN
{ sub ::PCDATA { '#PCDATA' } ## no critic (Subroutines::ProhibitNestedSubs);
  sub ::CDATA { '#CDATA' } ## no critic (Subroutines::ProhibitNestedSubs);
}

use UNIVERSAL();

## if a sub returns a scalar, it better not bloody disappear in list context
## no critic (Subroutines::ProhibitExplicitReturnUndef);

my $perl_version;
my $parser_version;

#####
package XML::Twig;
#####

require 5.004;

use utf8; # > perl 5.5

use vars qw($VERSION @ISA %valid_option);

use Carp;
use File::Spec;
use File::Basename;

use Config; # to get perl's path name in case we need to know if perlio is available

*isa= *UNIVERSAL::isa;

# flag, set to
  true if the weaken sub is available
use vars qw( $weakrefs);

# flag set to true if the version of expat seems to be 1.95.2, which has annoying bugs
# wrt doctype handling. This is global for performance reasons.
my $expat_1_95_2=0;

# a slight non-xml mod: # is allowed as a first character
my $REG_TAG_FIRST_LETTER;
$REG_TAG_FIRST_LETTER= q{(?:[^\W\d]|[#_])}; # < perl 5.6 - does not work for leading non-ascii letters
$REG_TAG_FIRST_LETTER= q{(?:[[:alpha:]]|#_)}; # >= perl 5.6

```

```

my $REG_TAG_LETTER= q{(?:[w_.-]*)};

# a simple name (no colon)
my $REG_NAME_TOKEN= qq{(?:$REG_TAG_FIRST_LETTER$REG_TAG_LETTER*)};

# a tag name, possibly including namespace
my $REG_NAME= qq{(?:$REG_NAME_TOKEN:)?$REG_NAME_TOKEN});

# tag name (leading # allowed)
# first line is for perl 5.005, second line for modern perl, that accept character classes
my $REG_TAG_NAME=$REG_NAME;

# name or wildcard (* or ") (leading # allowed)
my $REG_NAME_W = qq{(?:$REG_NAME|[*])};

# class and ids are deliberately permissive
my
$REG_NTOKEN_FIRST_LETTER;
$REG_NTOKEN_FIRST_LETTER= q{(?:[^\W\d][:_])}; # < perl 5.6 - does not work for leading non-ascii letters
$REG_NTOKEN_FIRST_LETTER= q{(?:[[:alpha:]:_])}; # >= perl 5.6

my $REG_NTOKEN_LETTER= q{(?:[w_.-]*)};

my $REG_NTOKEN= qq{(?:$REG_NTOKEN_FIRST_LETTER$REG_NTOKEN_LETTER*)};
my $REG_CLASS = $REG_NTOKEN;
my $REG_ID = $REG_NTOKEN;

# allow <tag> #<tag> (private elt) * <tag>.<class> *.<class> <tag>#<id> *#<id>
my $REG_TAG_PART= qq{(?:$REG_NAME_W(?:[.]$REG_CLASS|[#]$REG_ID)?[.]$REG_CLASS)};

my $REG_REGEXP = q{(?:/(?:[^\W]|\\\.)*[eimsox]*)}; # regexp
my $REG_MATCH = q{[!=]~}; # match (or not)
my $REG_STRING = q{(?:"([^\"]|\\.)*"|'([^']*|\\.)*')}; # string (simple or double quoted)
my $REG_NUMBER = q{(?:\d+(?:\.\d*)?\.\d+)}; # number
my $REG_VALUE = qq{(?:$REG_STRING|$REG_NUMBER)}; # value
my $REG_OP = q{[=|!=|>|<|>=|<=|eq|ne|lt|gt|le|ge]=};
# op
my $REG_FUNCTION = q{(?:string|text)\(s*\)};
my $REG_STRING_ARG = qq{(?:string|text)\\(s*$REG_NAME_W\s*\)};
my $REG_COMP = q{(?:>|=|<|=|<|>=)};

my $REG_TAG_IN_PREDICATE= $REG_NAME_W . q{(?:=s*(?:i:and\b|or\b|\\|$))};

# keys in the context stack, chosen not to interfere with att names, even private (#-prefixed) ones
my $ST_TAG = '##tag';
my $ST_ELT = '##elt';
my $ST_NS = '##ns';

```

```

# used in the handler trigger code
my $REG_NAKED_PREDICATE=
qq{((?:("[^"]*"|'['']*|[$REG_STRING_ARG][$REG_FUNCTION]|@$REG_NAME_W|$REG_MATCH\s*$REG_R
EGEXP|[\s\\d><=!(\)|\.\-]|(?:and)|(?:or)|$REG_TAG_IN_PREDICATE)*));
my $REG_PREDICATE= qq{\\[$REG_NAKED_PREDICATE\\]};

# not all axis, only supported ones (in get_xpath)
my @supported_axis= ( 'ancestor', 'ancestor-or-self', 'child', 'descendant', 'descendant-or-self',
    'following', 'following-sibling', 'parent', 'preceding', 'preceding-sibling', 'self'
    );
my $REG_AXIS
    = "(?:" . join( '|', @supported_axis) . ")";

# only used in the "xpath"engine (for get_xpath/findnodes) for now
my $REG_PREDICATE_ALT =
qr{\\(?:?:string\\(\\s*)\\|@$REG_TAG_NAME\\s*$REG_MATCH\\s*$REG_REGEXPS*\\[\\^\\]*\\)};

# used to convert XPath tests on strings to the perl equivalent
my %PERL_ALPHA_TEST= ( '=' => ' eq ', '!=' => ' ne ', '>' => ' gt ', '>=' => ' ge ', '<' => ' lt ', '<=' => ' le ');

my( $FB_HTMLCREF, $FB_XMLCREF);

my $NO_WARNINGS= $perl_version >= 5.006 ? 'no warnings' : 'local $^W=0';

# default namespaces, both ways
my %DEFAULT_NS= ( xml => "http://www.w3.org/XML/1998/namespace",
    xmlns => "http://www.w3.org/2000/xmlns/"
    );
my %DEFAULT_URI2NS= map { $DEFAULT_NS{$_} => $_ } keys %DEFAULT_NS;

# constants
my( $PCDATA, $CDATA, $PI, $COMMENT, $ENT, $ELT, $NOTATION, $TEXT, $ASIS, $EMPTY,
$BUFSIZE);

# used when an HTML doc only has a PUBLIC declaration, to generate the SYSTEM one
# this should really be done by HTML::TreeBuilder,
# but as of HTML::TreeBuilder 4.2 it isn't
# the various declarations are taken from http://en.wikipedia.org/wiki/Document_Type_Declaration
my %HTML_DECL= ( "-//W3C//DTD HTML 4.0 Transitional//EN" => "http://www.w3.org/TR/REC-
html40/loose.dtd",
    "-//W3C//DTD HTML 4.01//EN" => "http://www.w3.org/TR/html4/strict.dtd",
    "-//W3C//DTD HTML 4.01 Transitional//EN" => "http://www.w3.org/TR/html4/loose.dtd",
    "-//W3C//DTD HTML 4.01 Frameset//EN" => "http://www.w3.org/TR/html4/frameset.dtd",
    "-//W3C//DTD XHTML 1.0 Strict//EN" => "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd",
    "-//W3C//DTD XHTML 1.0 Transitional//EN" => "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
transitional.dtd",
    "-//W3C//DTD XHTML 1.0 Frameset//EN" => "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
frameset.dtd",

```

```

"-//W3C//DTD XHTML 1.1//EN"      => "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd",
"-//W3C//DTD XHTML Basic 1.0//EN" => "http://www.w3.org/TR/xhtml-basic/xhtml-basic10.dtd",
"-//W3C//DTD XHTML Basic 1.1//EN" => "http://www.w3.org/TR/xhtml-basic/xhtml-basic11.dtd",
"-//WAPFORUM//DTD XHTML Mobile 1.0//EN" => "http://www.wapforum.org/DTD/xhtml-
mobile10.dtd",
"-//WAPFORUM//DTD XHTML Mobile 1.1//EN" =>
"http://www.openmobilealliance.org/tech/DTD/xhtml-mobile11.dtd",
"-//WAPFORUM//DTD XHTML Mobile 1.2//EN" =>
"http://www.openmobilealliance.org/tech/DTD/xhtml-mobile12.dtd",
"-//W3C//DTD XHTML+RDFa 1.0//EN"   => "http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd",
);

```

```
my $DEFAULT_HTML_TYPE= "-//W3C//DTD HTML 4.0 Transitional//EN";
```

```
my $SEP= qr/\s*(?:$|\|)/;
```

```
BEGIN
```

```
{
$VERSION = '3.52';
```

```
use XML::Parser;
```

```
my $needVersion = '2.23';
```

```
($parser_version= $XML::Parser::VERSION)=~ s{_\d+}{}; # remove _<n> from version so numeric tests
do not warn
```

```
croak "need at least XML::Parser version $needVersion" unless $parser_version >= $needVersion;
```

```
($perl_version= $)=~ s{_\d+}{};
```

```
if( $perl_version >= 5.008)
```

```
{ eval "use Encode qw( :all)"; ## no critic ProhibitStringyEval
$FB_XMLCREF = 0x0400; # Encode::FB_XMLCREF;
$FB_HTMLCREF = 0x0200; # Encode::FB_HTMLCREF;
}
```

```
# test whether we can use weak references
```

```
# set local empty signal handler to trap error messages
```

```
{ local $SIG{__DIE__};
```

```
if( eval( 'require Scalar::Util' ) && defined( \&Scalar::Util::weaken))
{ import Scalar::Util( 'weaken'); $weakrefs= 1; }
```

```
elsif( eval( 'require WeakRef' ))
```

```
{ import WeakRef; $weakrefs= 1; }
```

```
else
```

```
{ $weakrefs= 0; }
```

```
}
```

```
import XML::Twig::Elt;
```

```
import XML::Twig::Entity;
```

```
import XML::Twig::Entity_list;
```



```

# used to store the gi's
# should be set for each twig really, at least when there are several
# the init ensures that special gi's are always the same

# constants: element
types
$PCDATA = '#PCDATA';
$CDATA = '#CDATA';
$PI = '#PI';
$COMMENT = '#COMMENT';
$ENT = '#ENT';
$NOTATION = '#NOTATION';

# element classes
$ELT = '#ELT';
$TEXT = '#TEXT';

# element properties
$ASIS = '#ASIS';
$EMPTY = '#EMPTY';

# used in parseurl to set the buffer size to the same size as in XML::Parser::Expat
$BUFSIZE = 32768;

# gi => index
%XML::Twig::gi2index=( "", 0, $PCDATA => 1, $CDATA => 2, $PI => 3, $COMMENT => 4, $ENT => 5);
# list of gi's
@XML::Twig::index2gi=( "", $PCDATA, $CDATA, $PI, $COMMENT, $ENT);

# gi's under this value are special
$XML::Twig::SPECIAL_GI= @XML::Twig::index2gi;

%XML::Twig::base_ent= ( '>' => '&gt;', '<' => '&lt;', '&' => '&amp;', "'" => '&apos;', '"' => '&quot;', );
foreach my $c ( "\n", "\r", "\t" ) { $XML::Twig::base_ent{$c}= sprintf( "&#x%02x;", ord( $c)); }

# now set some aliases
*find_nodes = *get_xpath; # same as XML::XPath
*findnodes = *get_xpath; # same
as XML::LibXML
*getElementsByTagName = *descendants;
*descendants_or_self = *descendants; # valid in XML::Twig, not in XML::Twig::Elt
*find_by_tag_name = *descendants;
*getElementById = *elt_id;
*getEltById = *elt_id;
*toString = *sprint;
*create_accessors = *att_accessors;

```

```

}

@ISA = qw(XML::Parser);

# fake gi's used in twig_handlers and start_tag_handlers
my $ALL = '_all_'; # the associated function is always called
my $DEFAULT = '_default_'; # the function is called if no other handler has been

# some defaults
my $COMMENTS_DEFAULT = 'keep';
my $PI_DEFAULT = 'keep';

# handlers used in regular mode
my %twig_handlers=( Start => \&twig_start,
                    End    => \&twig_end,
                    Char   => \&twig_char,
                    Entity => \&twig_entity,
                    Notation => \&twig_notation,
                    XMLDecl => \&twig_xmldecl,
                    Doctype
=> \&twig_doctype,
                    Element => \&twig_element,
                    Attlist => \&twig_attlist,
                    CdataStart => \&twig_cdatastart,
                    CdataEnd => \&twig_cdataend,
                    Proc      => \&twig_pi,
                    Comment  => \&twig_comment,
                    Default  => \&twig_default,
                    ExternEnt => \&twig_extern_ent,
                    );

# handlers used when twig_roots is used and we are outside of the roots
my %twig_handlers_roots=
( Start => \&twig_start_check_roots,
  End    => \&twig_end_check_roots,
  Doctype => \&twig_doctype,
  Char    => undef, Entity => undef, XMLDecl => \&twig_xmldecl,
  Element => undef, Attlist => undef, CdataStart => undef,
  CdataEnd => undef, Proc      => undef, Comment => undef,
  Proc     => \&twig_pi_check_roots,
  Default  => sub {}, # hack needed for XML::Parser 2.27
  ExternEnt
=> \&twig_extern_ent,
  );

# handlers used when twig_roots and print_outside_roots are used and we are

```

```

# outside of the roots
my %twig_handlers_roots_print_2_30=
( Start    => \&_twig_start_check_roots,
  End      => \&_twig_end_check_roots,
  Char     => \&_twig_print,
  Entity   => \&_twig_print_entity,
  ExternEnt => \&_twig_print_entity,
  DoctypeFin => \&_twig_doctype_fin_print,
  XMLDecl  => sub { _twig_xmldecl( @_); _twig_print( @_); },
  Doctype  => \&_twig_print_doctype, # because recognized_string is broken here
# Element  => \&_twig_print, Attlist  => \&_twig_print,
  CdataStart => \&_twig_print, CdataEnd  => \&_twig_print,
  Proc      => \&_twig_pi_check_roots, Comment  => \&_twig_print,
  Default   => \&_twig_print_check_doctype,
  ExternEnt => \&_twig_extern_ent,
);

# handlers used when twig_roots, print_outside_roots and keep_encoding are used
# and we are outside of the roots
my %twig_handlers_roots_print_original_2_30=
( Start    => \&_twig_start_check_roots,
  End      => \&_twig_end_check_roots,
  Char     => \&_twig_print_original,
# I have no idea why I should not be using this handler!
  Entity   => \&_twig_print_entity,
  ExternEnt => \&_twig_print_entity,
  DoctypeFin => \&_twig_doctype_fin_print,
  XMLDecl  => sub { _twig_xmldecl( @_); _twig_print_original( @_); },
  Doctype  => \&_twig_print_original_doctype, # because original_string is broken here
  Element  => \&_twig_print_original, Attlist  => \&_twig_print_original,
  CdataStart => \&_twig_print_original, CdataEnd  => \&_twig_print_original,
  Proc      => \&_twig_pi_check_roots, Comment  => \&_twig_print_original,
  Default   => \&_twig_print_original_check_doctype,
);

# handlers used when twig_roots and print_outside_roots are used and we are
# outside of the roots
my %twig_handlers_roots_print_2_27=
( Start    => \&_twig_start_check_roots,
  End
    => \&_twig_end_check_roots,
  Char     => \&_twig_print,
# if the Entity handler is set then it prints the entity declaration
# before the entire internal subset (including the declaration!) is output
  Entity   => sub {},
  XMLDecl  => \&_twig_print, Doctype  => \&_twig_print,
  CdataStart => \&_twig_print, CdataEnd  => \&_twig_print,
  Proc      => \&_twig_pi_check_roots, Comment  => \&_twig_print,

```

```

Default => \&_twig_print,
ExternEnt => \&_twig_extern_ent,
);

# handlers used when twig_roots, print_outside_roots and keep_encoding are used
# and we are outside of the roots
my %twig_handlers_roots_print_original_2_27=
( Start    => \&_twig_start_check_roots,
  End      => \&_twig_end_check_roots,
  Char     => \&_twig_print_original,
  # for some reason original_string is wrong here
  # this can be a problem if the doctype includes non ascii characters
  XMLDecl  => \&_twig_print, Doctype => \&_twig_print,
  # if the Entity handler is set then it prints the entity declaration
  # before the entire internal subset (including the declaration!) is output
  Entity   => sub {},
  #Element => undef, Attlist => undef,
  CdataStart => \&_twig_print_original, CdataEnd => \&_twig_print_original,
  Proc     => \&_twig_pi_check_roots, Comment => \&_twig_print_original,
  Default  => \&_twig_print, # _twig_print_original does not work
  ExternEnt => \&_twig_extern_ent,
);

```

```

my %twig_handlers_roots_print= $parser_version > 2.27
    ? %twig_handlers_roots_print_2_30
    : %twig_handlers_roots_print_2_27;
my %twig_handlers_roots_print_original= $parser_version > 2.27
    ? %twig_handlers_roots_print_original_2_30
    : %twig_handlers_roots_print_original_2_27;

```

```

# handlers used when the finish_print method has been called
my %twig_handlers_finish_print=
(
  Start    => \&_twig_print,
  End      => \&_twig_print, Char    => \&_twig_print,
  Entity   => \&_twig_print, XMLDecl => \&_twig_print,
  Doctype  => \&_twig_print, Element => \&_twig_print,
  Attlist  => \&_twig_print, CdataStart => \&_twig_print,
  CdataEnd => \&_twig_print, Proc    => \&_twig_print,
  Comment  => \&_twig_print, Default => \&_twig_print,
  ExternEnt => \&_twig_extern_ent,
);

```

```

# handlers used when the finish_print method has been called and the keep_encoding
# option is used
my %twig_handlers_finish_print_original=

```

```

( Start    => \&_twig_print_original, End    => \&_twig_print_end_original,
  Char     => \&_twig_print_original, Entity => \&_twig_print_original,
  XMLDecl  => \&_twig_print_original, Doctype => \&_twig_print_original,
  Element  => \&_twig_print_original, Attlist => \&_twig_print_original,
  CdataStart => \&_twig_print_original, CdataEnd => \&_twig_print_original,
  Proc
    => \&_twig_print_original, Comment => \&_twig_print_original,
  Default  => \&_twig_print_original,
);

# handlers used within ignored elements
my %twig_handlers_ignore=
( Start    => \&_twig_ignore_start,
  End      => \&_twig_ignore_end,
  Char     => undef, Entity    => undef, XMLDecl  => undef,
  Doctype  => undef, Element  => undef, Attlist  => undef,
  CdataStart => undef, CdataEnd => undef, Proc    => undef,
  Comment  => undef, Default  => undef,
  ExternEnt => undef,
);

# those handlers are only used if the entities are NOT to be expanded
my %twig_noexpand_handlers= ( ExternEnt => undef, Default => \&_twig_default );

my @saved_default_handler;

my $ID= 'id'; # default value, set by the Id argument
my $css_sel=0; # set through the css_sel option to allow .class selectors in triggers

# all allowed options
%valid_option=
( # XML::Twig options
  TwigHandlers    => 1, Id          => 1,

  TwigRoots       => 1, TwigPrintOutsideRoots => 1,
  StartTagHandlers => 1, EndTagHandlers    => 1,
  ForceEndTagHandlersUsage => 1,
  DoNotChainHandlers => 1,
  IgnoreElts      => 1,
  Index           => 1,
  AttAccessors    => 1,
  EltAccessors    => 1,
  FieldAccessors  => 1,
  CharHandler     => 1,
  TopDownHandlers => 1,
  KeepEncoding    => 1, DoNotEscapeAmpInAtts => 1,
  ParseStartTag   => 1, KeepAttsOrder      => 1,

```

```

LoadDTD          => 1, DTDHandler      => 1, DTDBase => 1, NoXxe => 1,
DoNotOutputDTD   => 1, NoProlog        => 1,
ExpandExternalEnts => 1,
DiscardSpaces     => 1, KeepSpaces      => 1, DiscardAllSpaces => 1,
DiscardSpacesIn   => 1, KeepSpacesIn    => 1,
PrettyPrint       => 1, EmptyTags       => 1,
EscapeGt          => 1,
Quote
    => 1,
Comments          => 1, Pi              => 1,
OutputFilter       => 1, InputFilter     => 1,
OutputTextFilter   => 1,
OutputEncoding     => 1,
RemoveCdata        => 1,
EltClass           => 1,
MapXmlns           => 1, KeepOriginalPrefix => 1,
SkipMissingEnts    => 1,
# XML::Parser options
ErrorContext       => 1, ProtocolEncoding => 1,
Namespaces         => 1, NoExpand         => 1,
Stream_Delimiter   => 1, ParseParamEnt    => 1,
NoLWP              => 1, Non_Expat_Options => 1,
Xmlns              => 1, CssSel           => 1,
UseTidy            => 1, TidyOptions       => 1,
OutputHtmlDoctype  => 1,
);

```

```
my $active_twig; # last active twig, for XML::Twig::s
```

```
# predefined input and output filters
```

```

use vars qw( %filter);
%filter= ( html      => \&html_encode,
          safe       => \&safe_encode,
          safe_hex   => \&safe_encode_hex,
        );

```

```
# trigger types (used to sort them)
```

```
my ($LEVEL_TRIGGER, $REGEXP_TRIGGER, $XPath_TRIGGER)=(1..3);
```

```
sub new
```

```

{ my ($class, %args) = @_;
  my $handlers;

```

```
# change all nice_perlish_names into nicePerlshNames
```

```
%args= _normalize_args( %args);
```

```
# check options
```

```

unless( $args{MoreOptions})
{
  foreach my $arg (keys %args)
  {
    carp "invalid option $arg" unless $valid_option{$arg};
  }
}

# a twig is really an XML::Parser
# my $self= XML::Parser->new(%args);
my $self;
$self= XML::Parser->new(%args);

bless $self, $class;

$self->{_twig_context_stack}= [];

# allow tag.class selectors in handler triggers
$css_sel= $args{CssSel} || 0;

if( exists $args{TwigHandlers})
{
  $handlers= $args{TwigHandlers};
  $self->setTwigHandlers( $handlers);
  delete $args{TwigHandlers};
}

# take care of twig-specific arguments
if( exists
$args{StartTagHandlers})
{
  $self->setStartTagHandlers( $args{StartTagHandlers});
  delete $args{StartTagHandlers};
}

if( exists $args{DoNotChainHandlers})
{
  $self->{twig_do_not_chain_handlers}= $args{DoNotChainHandlers};
}

if( exists $args{IgnoreElts})
{
  # change array to hash so you can write ignore_elts => [ qw(foo bar baz)]
  if( isa( $args{IgnoreElts}, 'ARRAY')) { $args{IgnoreElts}= { map { $_ => 1 } @{$args{IgnoreElts}} }; }
  $self->setIgnoreEltsHandlers( $args{IgnoreElts});
  delete $args{IgnoreElts};
}

if( exists $args{Index})
{
  my $index= $args{Index};
  # we really want a hash name => path, we turn an array into a hash if necessary
  if( ref( $index) eq 'ARRAY')
  {
    my %index= map { $_ => $_ } @$index;
    $index= \%index;
  }
}

```

```

while( my( $name, $exp)= each %$index)
{ $self->setTwigHandler( $exp, sub { push @{$_[0]}->{_twig_index}->{$name}}, $_, 1;
}); }
}

$self->{twig_elt_class}= $args{EltClass} || 'XML::Twig::Elt';
if( defined( $args{EltClass}) && $args{EltClass} ne 'XML::Twig::Elt') { $self->{twig_alt_elt_class}=1; }
if( exists( $args{EltClass})) { delete $args{EltClass}; }

if( exists( $args{MapXmlns}))
{ $self->{twig_map_xmlns}= $args{MapXmlns};
  $self->{Namespaces}=1;
  delete $args{MapXmlns};
}

if( exists( $args{KeepOriginalPrefix}))
{ $self->{twig_keep_original_prefix}= $args{KeepOriginalPrefix};
  delete $args{KeepOriginalPrefix};
}

$self->{twig_dtd_handler}= $args{DTDHandler};
delete $args{DTDHandler};

if( $args{ExpandExternalEnts})
{ $self->set_expand_external_entities( 1);
  $self->{twig_expand_external_ent}= $args{ExpandExternalEnts};
  $self->{twig_read_external_dtd}= 1; # implied by ExpandExternalEnts
  if( $args{ExpandExternalEnts} == -1)
  { $self->{twig_extern_ent_nofail}= 1;
    $self->setHandlers(
ExternEnt => \&_twig_extern_ent_nofail);
  }
  delete $args{LoadDTD};
  delete $args{ExpandExternalEnts};
}
else
{ $self->set_expand_external_entities( 0); }

if( !$args{NoLWP} && ! _use( 'URI') && ! _use( 'URI::File') && ! _use( 'LWP'))
{ $self->{twig_ext_ent_handler}= \&XML::Parser::initial_ext_ent_handler }
elsif( $args{NoXxe})
{ $self->{twig_ext_ent_handler}=
  sub { my($xp, $base, $path) = @_ ; $xp->{ErrorMessage}.= "cannot use entities in document when the no_xxe
option is on"; return undef; };
}
else
{ $self->{twig_ext_ent_handler}= \&XML::Parser::file_ext_ent_handler }

```



```

if( $args{DoNotEscapeAmpInAtts})
{ $self->set_do_not_escape_amp_in_atts( 1);
  $self->{twig_do_not_escape_amp_in_atts}=1;
}
else
{ $self->set_do_not_escape_amp_in_atts( 0);
  $self->{twig_do_not_escape_amp_in_atts}=0;
}

# deal with TwigRoots argument, a hash of elements
for which
# subtrees will be built (and associated handlers)

if( $args{TwigRoots})
{ $self->setTwigRoots( $args{TwigRoots});
  delete $args{TwigRoots};
}

if( $args{EndTagHandlers})
{ unless( $self->{twig_roots} || $args{ForceEndTagHandlersUsage})
  { croak "you should not use EndTagHandlers without TwigRoots\n",
    "if you want to use it anyway, normally because you have ",
    "a start_tag_handlers that calls 'ignore' and you want to ",
    "call an ent_tag_handlers at the end of the element, then ",
    "pass 'force_end_tag_handlers_usage => 1' as an argument ",
    "to new";
  }

  $self->setEndTagHandlers( $args{EndTagHandlers});
  delete $args{EndTagHandlers};
}

if( $args{TwigPrintOutsideRoots})
{ croak "cannot use twig_print_outside_roots without twig_roots"
  unless( $self->{twig_roots});
  # if the arg is a filehandle then store it
  if( _is_fh( $args{TwigPrintOutsideRoots}) )
  { $self->{twig_output_fh}= $args{TwigPrintOutsideRoots}; }
  $self->{twig_default_print}= $args{TwigPrintOutsideRoots};
}

# space policy
if( $args{KeepSpaces})
{ croak "cannot use both keep_spaces and discard_spaces"    if( $args{DiscardSpaces});
  croak "cannot use both keep_spaces and discard_all_spaces" if( $args{DiscardAllSpaces});
  croak "cannot use both keep_spaces and keep_spaces_in"     if( $args{KeepSpacesIn});
  $self->{twig_keep_spaces}=1;
  delete $args{KeepSpaces};
}

```

```

}
if( $args{DiscardSpaces})
{
    croak "cannot use both discard_spaces and keep_spaces_in" if( $args{KeepSpacesIn});
    croak "cannot use both discard_spaces and discard_all_spaces" if( $args{DiscardAllSpaces});
    croak "cannot use both discard_spaces and discard_spaces_in" if( $args{DiscardSpacesIn});
    $self->{twig_discard_spaces}=1;
    delete $args{DiscardSpaces};
}
if( $args{KeepSpacesIn})
{
    croak "cannot use both keep_spaces_in and discard_spaces_in" if( $args{DiscardSpacesIn});
    croak "cannot use both keep_spaces_in and discard_all_spaces" if( $args{DiscardAllSpaces});
    $self->{twig_discard_spaces}=1;
    $self->{twig_keep_spaces_in}={};
    my @tags= @{$args{KeepSpacesIn}};
    foreach my $tag (@tags) { $self->{twig_keep_spaces_in}->{$tag}=1; }
    delete $args{KeepSpacesIn};
}

if( $args{DiscardAllSpaces})
{
    croak "cannot use both discard_all_spaces and discard_spaces_in" if( $args{DiscardSpacesIn});
    $self->{twig_discard_all_spaces}=1;
    delete $args{DiscardAllSpaces};
}

if( $args{DiscardSpacesIn})
{
    $self->{twig_keep_spaces}=1;
    $self->{twig_discard_spaces_in}={};
    my @tags= @{$args{DiscardSpacesIn}};
    foreach my $tag (@tags)
    { $self->{twig_discard_spaces_in}->{$tag}=1; }
    delete $args{DiscardSpacesIn};
}

# discard spaces by default
$self->{twig_discard_spaces}= 1 unless( $self->{twig_keep_spaces});

$args{Comments}||= $COMMENTS_DEFAULT;
if( $args{Comments} eq 'drop') { $self->{twig_keep_comments}= 0; }
elsif( $args{Comments} eq 'keep') { $self->{twig_keep_comments}= 1; }
elsif( $args{Comments} eq 'process') { $self->{twig_process_comments}= 1; }
else { croak "wrong value for comments argument: '$args{Comments}' (should be 'drop', 'keep' or 'process')"; }
delete $args{Comments};

$args{Pi}||= $PI_DEFAULT;
if( $args{Pi} eq 'drop') { $self->{twig_keep_pi}= 0; }
elsif( $args{Pi} eq 'keep') { $self->{twig_keep_pi}= 1; }
elsif( $args{Pi} eq 'process') { $self->{twig_process_pi}= 1; }

```

```

else { croak "wrong value for pi argument: '$args{Pi}' (should be 'drop', 'keep' or 'process')"; }
delete $args{Pi};

if( $args{KeepEncoding})
{
    # set it in XML::Twig::Elt so print functions know what to do
    $self->set_keep_encoding( 1);
    $self->{parse_start_tag}= $args{ParseStartTag} || \&_parse_start_tag;
    delete $args{ParseStartTag} if defined( $args{ParseStartTag}) ;
    delete $args{KeepEncoding};
}
else
{ $self->set_keep_encoding( 0);
  if( $args{ParseStartTag})
    { $self->{parse_start_tag}= $args{ParseStartTag}; }
  else
    { delete $self->{parse_start_tag}; }
  delete $args{ParseStartTag};
}

if( $args{OutputFilter})
{ $self->set_output_filter( $args{OutputFilter});
  delete $args{OutputFilter};
}
else
{ $self->set_output_filter( 0); }

if( $args{RemoveCdata})
{ $self->set_remove_cdata( $args{RemoveCdata});
  delete $args{RemoveCdata};
}
else
{ $self->set_remove_cdata( 0); }

if( $args{OutputTextFilter})
{ $self->set_output_text_filter(
$args{OutputTextFilter});
  delete $args{OutputTextFilter};
}
else
{ $self->set_output_text_filter( 0); }

if( $args{KeepAttsOrder})
{ $self->{keep_atts_order}= $args{KeepAttsOrder};
  if( _use( 'Tie::IxHash'))
    { $self->set_keep_atts_order( $self->{keep_atts_order}); }
  else
    { croak "Tie::IxHash not available, option keep_atts_order not allowed"; }
}

```

```

    }
else
    { $self->set_keep_atts_order( 0); }

if( $args{PrettyPrint}) { $self->set_pretty_print( $args{PrettyPrint}); }
if( $args{EscapeGt}) { $self->escape_gt( $args{EscapeGt}); }
if( $args{EmptyTags}) { $self->set_empty_tag_style( $args{EmptyTags}) }

if( exists $args{Id}) { $ID= $args{Id}; delete $args{ID}; }
if( $args{NoProlog}) { $self->{no_prolog}= 1; delete $args{NoProlog}; }
if( $args{DoNotOutputDTD}) { $self->{no_dtd_output}= 1;
    delete $args{DoNotOutputDTD}; }
if( $args{LoadDTD}) { $self->{twig_read_external_dtd}= 1; delete $args{LoadDTD}; }
if( $args{CharHandler}) { $self->setCharHandler( $args{CharHandler}); delete $args{CharHandler}; }

if( $args{InputFilter}) { $self->set_input_filter( $args{InputFilter}); delete $args{InputFilter}; }
if( $args{NoExpand}) { $self->setHandlers( %twig_noexpand_handlers); $self->{twig_no_expand}=1; }
if( my $output_encoding= $args{OutputEncoding}) { $self->set_output_encoding( $output_encoding); delete
$args{OutputFilter}; }

if( my $tdh= $args{TopDownHandlers}) { $self->{twig_tdh}=1; delete $args{TopDownHandlers}; }

if( my $acc_a= $args{AttAccessors}) { $self->att_accessors( @$acc_a); }
if( my $acc_e= $args{EltAccessors}) { $self->elt_accessors( isa( $acc_e, 'ARRAY') ? @$acc_e : $acc_e); }
if( my $acc_f= $args{FieldAccessors}) { $self->field_accessors( isa( $acc_f, 'ARRAY') ? @$acc_f : $acc_f); }

if( $args{UseTidy}) { $self->{use_tidy}= 1; }
$self->{tidy_options}= $args{TidyOptions} || {};

if( $args{OutputHtmlDoctype}) { $self->{html_doctype}= 1; }

$self->set_quote( $args{Quote} || 'double');

# set handlers
if( $self->{twig_roots})
    { if( $self->{twig_default_print})
        { if( $self->{twig_keep_encoding})
            { $self->setHandlers( %twig_handlers_roots_print_original); }
        else
            { $self->setHandlers( %twig_handlers_roots_print); }
        }
    else
        { $self->setHandlers( %twig_handlers_roots); }
    }
else
    { $self->setHandlers( %twig_handlers); }

```

```

# XML::Parser::Expat does not like these handler to be set. So in order to
# use the various sets of handlers on XML::Parser or XML::Parser::Expat
# objects when needed, these ones have to be set only once, here, at
# XML::Parser level
$self->setHandlers( Init => \&_twig_init, Final => \&_twig_final);

$self->{twig_entity_list}=
XML::Twig::Entity_list->new;
$self->{twig_notation_list}= XML::Twig::Notation_list->new;

$self->{twig_id}= $ID;
$self->{twig_stored_spaces}="";

$self->{twig_autoflush}= 1; # auto flush by default

$self->{twig}= $self;
if( $weakeres) { weaken( $self->{twig}); }

return $self;
}

sub parse
{
    my $t= shift;
    # if called as a class method, calls nparse, which creates the twig then parses it
    if( !ref( $t) || !isa( $t, 'XML::Twig')) { return $t->npars( @_); }

    # requires 5.006 at least (or the ${^UNICODE} causes a problem) # > perl 5.5
    # trap underlying bug in IO::Handle (see RT #17500) # > perl 5.5
    # croak if perl 5.8+, -CD (or PERL_UNICODE set to D) and parsing a pipe # > perl 5.5
    if( $perl_version>=5.008 && ${^UNICODE} && (${^UNICODE} & 24) && isa( $_[0], 'GLOB') && -p $_[0] )

    # > perl 5.5
    { croak "cannot parse the output of a pipe when perl is set to use the UTF8 perlIO layer\n" # > perl 5.5
      . "set the environment variable PERL_UNICODE or use the -C option (see perldoc perlrun)\n" # > perl 5.5
      . "not to include 'D'";
      # > perl 5.5
    }
    # > perl 5.5
    $t= eval { $t->SUPER::pars( @_); };

    if( !$t
      && $t =~ m/((syntax error at line 1, column 0, byte 0|not well-formed \ (invalid token\)) at line 1, column 1, byte
1))
    {
        && -f $_[0]
        && ( ! ref( $_[0]) || ref( $_[0])) ne 'GLOB' # -f works on a filehandle, so this make sure $_[0] is a real file
        )
        { croak "you seem to have used the parse method on a filename ( $_[0]), you probably want parsefile instead"; }
    }
    return _checked_pars_result( $t, $t);
}

```

```

sub parsefile
{ my $t= shift;
  if( -f $_[0] && ! -s $_[0]) { return _checked_parse_result( undef, "empty file '$_[0]'" ); }
  $t= eval { $t->SUPER::parsefile( @_ ); };
  return _checked_parse_result( $t, $@ );
}

sub _checked_parse_result
{ my( $t, $returned)= @_;
  if( !$t)
  { if( isa( $returned, 'XML::Twig' ) && $returned->{twig_finish_now})
    { $t= $returned;
      delete $t->{twig_finish_now};
      return $t->_twig_final;
    }
    else
    { _croak( $returned, 0 ); }
  }

  $active_twig= $t;
  return $t;
}

sub active_twig { return $active_twig; }

sub finish_now
{ my $t= shift;
  $t->{twig_finish_now}=1;
  # XML::Parser 2.43 changed xpcroak in a way that caused test failures for XML::Twig
  # the change was reverted in 2.44, but this is here to ensure that tests pass with 2.43
  if( $XML::Parser::VERSION == 2.43)
  { no warnings;
    $t->parser->{twig_error}= $t;
    *XML::Parser::Expat::xpcroak= sub {
die $_[0]->{twig_error}; };
    die $t;
  }
  else
  { die $t; }
}

sub parsefile_inplace { shift->_parse_inplace( parsefile => @_ ); }
sub parsefile_html_inplace { shift->_parse_inplace( parsefile_html => @_ ); }

sub _parse_inplace
{ my( $t, $method, $file, $suffix)= @_;

```

```

_use( 'File::Temp') || croak "need File::Temp to use inplace methods\n";
_use( 'File::Basename');

my $tmpdir= dirname( $file);
my( $tmpfh, $tmpfile)= File::Temp::tempfile( DIR => $tmpdir);
my $original_fh= select $tmpfh;

# we can only use binmode :utf8 if perl was compiled with useperlio
# might be a problem if keep_encoding used but the file is already in utf8
if( $perl_version > 5.006 && !$t->{twig_keep_encoding} && _use_perlio()) { binmode( $tmpfh, ":utf8" ); }

$t->$method( $file);

select $original_fh;
close $tmpfh;
my $mode= (stat( $file))[2] & oct(7777);
chmod $mode, $tmpfile or croak "cannot change temp file mode to $mode: $!";

if( $suffix)
{ my $backup;
  if( $suffix=~ m{\*}) { ($backup = $suffix) =~ s/^*/$file/g; }
  else { $backup= $file . $suffix; }

  rename( $file, $backup) or croak "cannot backup initial file ($file) to $backup: $!";
}
rename( $tmpfile, $file) or croak "cannot rename temp file ($tmpfile) to initial file ($file): $!";

return $t;
}

sub parseurl
{ my $t= shift;
  $t->_parseurl( 0, @_);
}

sub safe_parseurl
{ my $t= shift;
  $t->_parseurl( 1, @_);
}

sub safe_parsefile_html
{ my $t= shift;
  eval { $t->parsefile_html( @_); };
  return $@ ? $t->_reset_twig_after_error : $t;
}

```

```

sub safe_parseurl_html
{ my $t= shift;
  _use( 'LWP::Simple' ) or croak "missing LWP::Simple";
  eval { $t->parse_html( LWP::Simple::get( shift()), @_); } ;
  return $$ ? $t->_reset_twig_after_error : $t;
}

sub parseurl_html
{ my $t= shift;
  _use( 'LWP::Simple' ) or croak "missing LWP::Simple";
  $t->parse_html(
LWP::Simple::get( shift()), @_);
}

# uses eval to catch the parser's death
sub safe_parse_html
{ my $t= shift;
  eval { $t->parse_html( @_); } ;
  return $$ ? $t->_reset_twig_after_error : $t;
}

sub parsefile_html
{ my $t= shift;
  my $file= shift;
  my $indent= $t->{ErrorContext} ? 1 : 0;
  $t->set_empty_tag_style( 'html');
  my $html2xml= $t->{use_tidy} ? \&_tidy_html : \&_html2xml;
  my $options= $t->{use_tidy} ? $t->{tidy_options} || {} : { indent => $indent, html_doctype => $t->{html_doctype} };
  $t->parse( $html2xml->( _slurp( $file), $options), @_);
  return $t;
}

sub parse_html
{ my $t= shift;
  my $options= ref $_[0] && ref $_[0] eq 'HASH' ? shift() : {};
  my $use_tidy= exists $options->{use_tidy} ? $options->{use_tidy} : $t->{use_tidy};
  my $content= shift;
  my $indent= $t->{ErrorContext} ? 1 : 0;
  $t->set_empty_tag_style( 'html');
  my $html2xml= $use_tidy ? \&_tidy_html : \&_html2xml;
  my $conv_options=
$use_tidy ? $t->{tidy_options} || {} : { indent => $indent, html_doctype => $t->{html_doctype} };
  $t->parse( $html2xml->( isa( $content, 'GLOB') ? _slurp_fh( $content) : $content, $conv_options), @_);
  return $t;
}

```



```

sub xparse
{ my $t= shift;
  my $to_parse= $_[0];
  if( isa( $to_parse, 'GLOB') ) { $t->parse( @_); }
  elsif( $to_parse=~ m{^\s*<} ) { $to_parse=~ m{<html>i ? $t->_parse_as_xml_or_html( @_ )
                                : $t->parse( @_);
                                }
  elsif( $to_parse=~ m{^\w+://.*\.html?$}) { _use( 'LWP::Simple' ) or croak "missing LWP::Simple";
        $t->_parse_as_xml_or_html( LWP::Simple::get( shift()), @_);
        }
  elsif( $to_parse=~ m{^\w+://}) { _use( 'LWP::Simple' ) or croak "missing LWP::Simple";

        my $doc= LWP::Simple::get( shift);
        if( ! defined $doc ) { $doc=""; }
        my $xml_parse_ok= $t->safe_parse( $doc, @_);
        if( $xml_parse_ok )
        { return $xml_parse_ok; }
        else
        { my $diag= $@;
          if( $doc=~ m{<html>i)
          { $t->parse_html( $doc, @_); }
          else
          { croak $diag; }
          }
        }
  elsif( $to_parse=~ m{\.html?$}) { my $content= _slurp( shift);
        $t->_parse_as_xml_or_html(
$content, @_);
        }
  else
        { $t->parsefile( @_); }
}

sub _parse_as_xml_or_html
{ my $t= shift;
  if( _is_well_formed_xml( $_[0]))
  { $t->parse( @_ ) }
  else
  { my $html2xml= $t->{use_tidy} ? \&_tidy_html : \&_html2xml;
    my $options= $t->{use_tidy} ? $t->{tidy_options} || {} : { indent => 0, html_doctype => $t->{html_doctype}
};
    my $html= $html2xml->( $_[0], $options, @_);
    if( _is_well_formed_xml( $html))
    { $t->parse( $html); }
    else
    { croak $@; } # can't really test this because HTML::Parser or HTML::Tidy may change how they deal with
bas HTML between versions
  }
}

```

```

{ my $parser;
sub _is_well_formed_xml
{ $parser ||= XML::Parser->new;
  eval { $parser->parse( $_[0]); };
  return $@ ? 0 : 1;
}
}

sub nparse
{ my $class= shift;
  my $to_parse= pop;
  $class->new( @_)->xparse(
  $to_parse);
}

sub nparse_pp { shift()->nparse( pretty_print => 'indented', @_); }
sub nparse_e { shift()->nparse( error_context => 1,      @_); }
sub nparse_ppe { shift()->nparse( pretty_print => 'indented', error_context => 1, @_); }

sub _html2xml
{ my( $html, $options)= @_;
  _use( 'HTML::TreeBuilder', '3.13') or croak "cannot parse HTML: missing HTML::TreeBuilder v >= 3.13\n";
  my $tree= HTML::TreeBuilder->new;
  $tree->ignore_ignorable_whitespace( 0);
  $tree->ignore_unknown( 0);
  $tree->no_space_compacting( 1);
  $tree->store_comments( 1);
  $tree->store_pis(1);
  $tree->parse( $html);
  $tree->eof;

  my $xml="";
  if( $options->{html_doctype} && exists $tree->{_decl} )
    { my $decl= $tree->{_decl}->as_XML;

      # first try to fix declarations that are missing the SYSTEM part
      $decl =~ s/{^s*<!DOCTYPE \s+ ((?i)html) \s+ PUBLIC \s+ "([^"]*)" \s* >}
        { my $system= $HTML_DECL{$2} || $HTML_DECL{$DEFAULT_HTML_TYPE};
          qq{<!DOCTYPE $1 PUBLIC "$2" "$system">}}

    }xe;

  # then check that the declaration looks OK (so it parses), if not remove it,
  # better to parse without the declaration than to die stupidly
  if( $decl =~ m{<!DOCTYPE \s+ (?i:HTML) (\s+ PUBLIC \s+ "[^"]*" \s+ (SYSTEM \s+)? "[^"]*" )? \s*>}x #
PUBLIC then SYSTEM

```

```

        || $decl =~ m{<!DOCTYPE \s+ (?i:HTML) \s+ SYSTEM \s+ "[^"]*" \s*>}x
SYSTEM
    )
    { $xml= $decl; }
}

$xml.= _as_XML( $tree);

_fix_xml( $tree, \ $xml);

if( $options->{indent}) { _indent_xhtml( \ $xml); }
$tree->delete;
$xml=~ s{\s+$}{}s; # trim end
return $xml;
}

sub _tidy_html
{ my( $html, $options)= @_ ;
  _use( 'HTML::Tidy') or croak "cannot cleanup HTML using HTML::Tidy (required by the use_tidy option):
  $@\n"; ;
  my $TIDY_DEFAULTS= { output_xhtml => 1, # duh!
    tidy_mark
=> 0, # do not add the "generated by tidy" comment
    numeric_entities => 1,
    char_encoding => 'utf8',
    bare => 1,
    clean => 1,
    doctype => 'transitional',
    fix_backslash => 1,
    merge_divs => 0,
    merge_spans => 0,
    sort_attributes => 'alpha',
    indent => 0,
    wrap => 0,
    break_before_br => 0,
  };
  $options ||= {};
  my $tidy_options= { %$TIDY_DEFAULTS, %$options};
  my $tidy = HTML::Tidy->new( $tidy_options);
  $tidy->ignore( type => 1, type => 2 ); # 1 is TIDY_WARNING, 2 is TIDY_ERROR, not clean
  my $xml= $tidy->clean( $html );
  return $xml;
}

{ my %xml_parser_encoding;
  sub _fix_xml

```

```

{ my( $tree, $xml)= @_; # $xml is a ref to the xml string

my
$max_tries=5;
my $add_decl;

while( ! _check_xml( $xml) && $max_tries-- )
{
    # a couple of fixes for weird HTML::TreeBuilder errors
    if( $@=~ m{^\s*xml (or text)?declaration not at start of (external)?entity}i)
    { $$xml=~ s{<\?xml.*?\?>}{}g;
        #warn " fixed xml declaration in the wrong place\n";
    }
    elsif( $@=~ m{undefined entity})
    { $$xml=~ s{&(amp;)?Amp;}{&};g if $HTML::TreeBuilder::VERSION < 4.00;
        if( _use( 'HTML::Entities::Numbered')) { $$xml=name2hex_xml( $$xml); }
        $$xml=~ s{&(\w+);}{} my $ent= $1; if( $ent !~ m{^(amp|lt|gt|apos|quote)$}) { "&$ent;" } eg;
    }
    elsif( $@=~ m{&Amp; used in html})
    { # if &Amp; is used instead of & then HTML::TreeBuilder's as_xml is tripped (old version)
        { $$xml=~ s{&(amp;)?Amp;}{&};g if $HTML::TreeBuilder::VERSION < 4.00;
        }
    }
    elsif( $@=~ m{^\s*not well-formed
\ (invalid token)})
    { if( $HTML::TreeBuilder::VERSION < 4.00)
        { $$xml=~ s{&(amp;)?Amp;}{&};g;
            $$xml=~ s{(<[^\>]*)(\d+=)}{1a$2}g; # <table 1> comes out as <table 1="1">, "fix the attribute
        }
        my $q= ')}{<?xml version="1.0" encoding="$encoding"?>}s;

```

```

        #warn " added decl (encoding $encoding)\n";
    }
    else
    { $$xml=~ s{^(<\?xml.*?\?>)?}{ }s;
        #warn " converting to utf8 from $encoding\n";
        $$xml= _to_utf8( $encoding, $$xml);
    }
}
else
{ $$xml=~ s{^(<\?xml.*?\?>)?}{ }s;
    #warn " converting to utf8 from $encoding\n";
    $$xml= _to_utf8( $encoding, $$xml);
}
}
}

# some versions of HTML::TreeBuilder escape CDATA sections
$$xml=~ s{(<![CDATA\[.*?\]]&gt;)}{_unescape_cdata( $1)}eg;

}

sub _xml_parser_encodings
{ my @encodings=( 'iso-8859-1'); # this one is included by default, there is no map for it in @INC
  foreach my $inc (@INC)
  { push @encodings, map { basename( $_, '.enc' ) } glob( File::Spec->catdir( $inc => XML => Parser =>
Encodings => '*.enc'))}; }
  return map { $_ => 1 } @encodings;
}

sub _unescape_cdata
{ my( $cdata)= @_;
  $cdata=~s/{&lt;}/{<}g;
  $cdata=~s/{&gt;}/{>}g;
  $cdata=~s/{&amp;}/{&}g;
  return $cdata;
}

sub _as_XML {

# fork of HTML::Element::as_XML, which is a little too buggy and inconsistent between versions for my liking
my ($elt) = @_ ;
my $xml= "";
my $empty_element_map = $elt->_empty_element_map;

```

```

my ( $tag, $node, $start ); # per-iteration scratch
$elt->traverse(
  sub {
    ( $node, $start ) = @_;
    if ( ref $node
)
    { # it's an element
      $tag = $node->{'_tag'};
      if ($start)
      { # on the way in
        foreach my $att ( grep { ! m{^(_/)} } keys %$node )
        { # fix attribute names instead of dying
          my $new_att= $att;
          if( $att=~ m{^d}) { $new_att= "a$att"; }
          $new_att=~ s{[^\w\d:_-]}{}g;
          $new_att ||= 'a';
          if( $new_att ne $att ) { $node->{$new_att}= delete $node->{$att}; }
        }

        if ( $empty_element_map->{$tag} && (!@{ $node->{'_content'} || []} ) )
        { $xml.= $node->starttag_XML( undef, 1 ); }
        else
        { $xml.= $node->starttag_XML(undef); }
      }
      else
      { # on the way out
        unless ( $empty_element_map->{$tag} and !@{ $node->{'_content'}
|| [] } )
        { $xml.= $node->endtag_XML();
        } # otherwise it will have been an <... /> tag.
      }
    }
    elsif( $node=~ /<![CDATA\[\/] # the content includes CDATA
    { foreach my $chunk (split /(<![CDATA\[.*?\])>/s, $node) # chunks are CDATA sections or normal text
      { $xml.= $chunk =~ m{<![CDATA\[ ? $chunk : _xml_escape( $chunk); }
    }
    else # it's just text
    { $xml .= _xml_escape($node); }
    1; # keep traversing
  }
);
return $xml;
}

sub _xml_escape
{ my( $html)= @_;
  $html =~ s{&(?! # An ampersand that isn't followed by...
( \#[0-9]+; | # A hash mark, digits and semicolon, or

```

```

        \#x[0-9a-fA-F]+; | # A hash mark, "x", hex digits and semicolon, or
        [\w]+;          # A valid unicode entity name and
semicolon
    )
    )
    }
    {&amp;}gx if 0; # Needs to be escaped to amp

$html=~ s{&}{&amp;}g;

# in old versions of HTML::TreeBuilder &amp; can come out as &Amp;
if( $HTML::TreeBuilder::VERSION && $HTML::TreeBuilder::VERSION <= 3.23) { $html=~
s{&Amp;}{&amp;}g; }

# simple character escapes
$html =~ s/</&lt;/g;
$html =~ s/>/&gt;/g;
$html =~ s"/&quot;/g;
$html =~ s'/&apos;/g;

return $html;
}

sub _check_xml
{ my( $xml)= @_ ; # $xml is a ref to the xml string
  my $ok= eval { XML::Parser->new->parse( $$xml); };
  #if( $ok) { warn " parse OK\n"; }
  return $ok;
}

sub _encoding_from_meta
{ my( $tree)= @_;
  my $enc="iso-8859-1";
  my @meta= $tree->find( 'meta');
  foreach my $meta (@meta)
  { if( $meta->{'http-equiv'} && ($meta->{'http-equiv'} =~ m{^s*content-type\s*}i)
    && $meta->{'content'} && ($meta->{'content'} =~ m{^s*text/html\s*;s*charset\s*=\s*(\S*)\s*}i)
    )
    { $enc= lc $1;
      #warn " encoding from meta tag is '$enc'\n";
      last;
    }
  }
  return $enc;
}

```

```

{ sub _to_utf8
{ my( $encoding, $string)= @_;
local $SIG{__DIE__};
if( _use( 'Encode'))
{ Encode::from_to( $string, $encoding => 'utf8', 0x0400); } # 0x0400 is Encode::FB_XMLCREF
elsif( _use( 'Text::Iconv'))
{ my $converter = eval { Text::Iconv->new( $encoding => "utf8") };
if( $converter) { $string= $converter->convert( $string); }
}
elsif( _use( 'Unicode::Map8') && _use( 'Unicode::String'))
{ my $map= Unicode::Map8->new( $encoding);
$string= $map->tou( $string)->utf8;
}
$string=~ s{[\x00-\x08\x0B\x0C\x0E-\x1F]}{}g; # get rid of control chars, portable in 5.6
return $string;
}
}

```

```

sub _indent_xhtml
{ my( $xhtml)= @_; # $xhtml is a ref
my %block_tag= map { $_ => 1 } qw( html

        head
                meta title link script base
        body
                h1 h2 h3 h4 h5 h6
                p br address blockquote pre
                ol ul li dd dl dt
                table tr td th tbody tfoot thead col colgroup caption
                div frame frameset hr
        );

```

```

my $level=0;
$$xhtml=~ s{((?:<!--.*?-->|CDATA[.*?]>))} # ignore comments and CDATA sections
| <(\w+)((?:\s+\w+\s*=\s*(?:"[^"]*"|'['']*))*\s*>)} # empty tag
| <(\w+) # start tag
| </(\w+) # end tag
)
}
{ if( $2 && $block_tag{$2}) { my $indent= " " x $level;

"\n$indent<$2$3";
        }
elseif( $4 && $block_tag{$4}) { my $indent= " " x $level;
        $level++ unless( $4 =~ m{</>});
        my $nl= $4 eq 'html' ? " : "\n";

```



```

        "$nl$indent<$4";
    }
    elsif( $5 && $block_tag{$5}) { $level--; "</$5"; }
    else
        { $1; }
    }xesg;
}

sub add_stylesheet
{ my( $t, $type, $href)= @_;
  my %text_type= map { $_ => 1 } qw( xsl css);
  my $ss= $t->{twig_elt_class}->new( $PI);
  if( $text_type{$type})
    { $ss->_set_pi( 'xml-stylesheet', qq{type="text/$type" href="$href"}); }
  else
    { croak "unsupported style sheet type '$type'"; }

  $t->_add_cpi_outside_of_root( leading_cpi => $ss);
  return $t;
}

{ my %used;
  # module => 1 if require ok, 0 otherwise
  my %disallowed; # for testing, refuses to _use modules in this hash

  sub _disallow_use ## no critic (Subroutines::ProhibitNestedSubs);
  { my( @modules)= @_;
    $disallowed{$_}= 1 foreach (@modules);
  }

  sub _allow_use ## no critic (Subroutines::ProhibitNestedSubs);
  { my( @modules)= @_;
    $disallowed{$_}= 0 foreach (@modules);
  }

  sub _use ## no critic (Subroutines::ProhibitNestedSubs);
  { my( $module, $version)= @_;
    $version ||= 0;
    if( $disallowed{$module}) { return 0; }
    if( $used{$module})      { return 1; }
    if( eval "require $module") { import $module; $used{$module}= 1; # no critic ProhibitStringyEval
      if( $version)
      {
        ## no critic (TestingAndDebugging::ProhibitNoStrict);
        no strict 'refs';

        if( ${"${module}::VERSION"} >= $version ) { return 1; }
        else
          { return 0; }
      }
    }
  }
}

```

```

        }
        else
            { return 1; }
    }
    else
        { $used{$module}= 0; return 0; }
}
}

```

used to solve the [n] predicates while avoiding getting the entire list

needs a prototype to accept passing bare blocks

```

sub _first_n(&$@)    ## no critic (Subroutines::ProhibitSubroutinePrototypes);
{ my $coderef= shift;
  my $n= shift;
  my $i=0;
  if( $n > 0)
      { foreach (@_) { if( &$coderef) { $i++; return $_ if( $i == $n); } } }
  elsif( $n < 0)
      { foreach (reverse @_) { if( &$coderef) { $i--; return $_ if( $i == $n); } } }
  else
      { croak "illegal position number 0"; }
  return undef;
}

```

```

sub _slurp_uri
{ my(
  $uri, $base)= @_;
  if( $uri =~ m{^\w+://}) { _use( 'LWP::Simple'); return LWP::Simple::get( $uri); }
  else
      { return _slurp( _based_filename( $uri, $base)); }
}

```

```

sub _based_filename
{ my( $filename, $base)= @_;
  # cf. XML/Parser.pm's file_ext_ent_handler
  if( defined($base) and not ($filename =~ m{^(?:[\\V]|\w+)}))
      { my $newpath = $base;
        $newpath =~ s{[^\V:]*}{$filename};
        $filename = $newpath;
      }
  return $filename;
}

```

```

sub _slurp
{ my( $filename)= @_;
  my $to_slurp;
  open( $to_slurp, "<$filename") or croak "cannot open '$filename': $!";
  local $/= undef;
  my $content= <$to_slurp>;
  close $to_slurp;
}

```

```

    return $content;
}

sub _slurp_fh
{ my( $fh)= @_;
  local $/= undef;
  my $content= <$fh>;
  return $content;
}

# I should really add extra options to allow better configuration of the
# LWP::UserAgent object
# this method forks (except on VMS!)
# - the child
  gets the data and copies it to the pipe,
# - the parent reads the stream and sends it to XML::Parser
# the data is cut it chunks the size of the XML::Parser::Expat buffer
# the method returns the twig and the status
sub _parseurl
{ my( $t, $safe, $url, $agent)= @_;
  _use( 'LWP') || croak "LWP not available, needed to use parseurl methods";
  if( $^O ne 'VMS')
  { pipe( README, WRITEME) or croak "cannot create connected pipes: $!";
    if( my $pid= fork)
    { # parent code: parse the incoming file
      close WRITEME; # no need to write
      my $result= $safe ? $t->safe_parse( \*README) : $t->parse( \*README);
      close README;
      return @$ ? 0 : $t;
    }
  }
  else
  { # child
    close README; # no need to read
    local $|=1;
    $agent ||= LWP::UserAgent->new;
    my $request = HTTP::Request->new( GET => $url);
    # _pass_url_content is called with chunks of data the
same size as
    # the XML::Parser buffer
    my $response = $agent->request( $request,
      sub { _pass_url_content( \*WRITEME, @_); }, $BUFSIZE);
    $response->is_success or croak "$url ", $response->message;
    close WRITEME;
    CORE::exit(); # CORE is there for mod_perl (which redefines exit)
  }
}
else
{ # VMS branch (hard to test!)

```

```

    local $|=1;
    $agent ||= LWP::UserAgent->new;
    my $request = HTTP::Request->new( GET => $url);
    my $response = $agent->request( $request);
    $response->is_success or croak "$url ", $response->message;
    my $result= $safe ? $t->safe_parse($response->content) : $t->parse($response->content);
    return $@ ? 0 : $t;
}

}

# get the (hopefully!) XML data from the URL and
sub _pass_url_content
{ my( $fh, $data, $response, $protocol)= @_ ;
  print { $fh } $data;
}

sub add_options
{ my %args= map { $_, 1
} @_;
  %args= _normalize_args( %args);
  foreach (keys %args) { $valid_option{$_}++; }
}

sub _pretty_print_styles { return XML::Twig::Elt::_pretty_print_styles(); }

sub _twig_store_internal_dtd
{
  # warn " in _twig_store_internal_dtd...\n"; # DEBUG handler
  my( $p, $string)= @_ ;
  my $t= $p->{twig};
  if( $t->{twig_keep_encoding}) { $string= $p->original_string(); }
  $t->{twig_doctype}->{internal} .= $string;
  return;
}

sub _twig_stop_storing_internal_dtd
{ # warn " in _twig_stop_storing_internal_dtd...\n"; # DEBUG handler
  my $p= shift;
  if( @saved_default_handler && defined $saved_default_handler[1])
  { $p->setHandlers( @saved_default_handler); }
  else
  {
    $p->setHandlers( Default => undef);
  }
  $p->{twig}->{twig_doctype}->{internal} =~ s{^\\s*\\[\\]}{};
  $p->{twig}->{twig_doctype}->{internal} =~ s{\\s*$}{};
  return;
}

```

```

}

sub _twig_doctype_fin_print
{ # warn " in _twig_doctype_fin_print...\n"; # DEBUG handler
  my(
    $p)= shift;
    if( $p->{twig}->{twig_doctype}->{has_internal} && !$expat_1_95_2) { print ' ]>'; }
    return;
  }

sub _normalize_args
{ my %normalized_args;
  while( my $key= shift )
    { $key= join " ", map { ucfirst } split /_/, $key;
      #key= "Twig".$key unless( substr( $key, 0, 4) eq "Twig");
      $normalized_args{$key}= shift ;
    }
  return %normalized_args;
}

sub _is_fh { return unless $_[0]; return $_[0] if( isa( $_[0], 'GLOB') || isa( $_[0], 'IO::Scalar')); }

sub _set_handler
{ my( $handlers, $whole_path, $handler)= @_ ;

  my $H_SPECIAL = qr{($ALL|$DEFAULT|$COMMENT|$TEXT)};
  my $H_PI      = qr{(\?$PI)\s*([^\s]*)\s*});
  my $H_LEVEL   = qr{level\s*\s*([0-9]+)\s*});
  my $H_REGEXP  = qr{(\?(?![^xism]*)(-[^xism]*)?:[^\s]*)});
  my $H_XPATH   = qr{(/?/?$REG_TAG_PART?\s*($REG_PREDICATE\s*)?)};

  my $prev_handler;

  my $cpath= $whole_path;
  #warn "\$cpath: '$cpath\n";
  while( $cpath && $cpath=~ s{^\s*($H_SPECIAL|$H_PI|$H_LEVEL|$H_REGEXP|$H_XPATH)\s*(\$|\\)}{}}
    { my $path= $1;
      #warn "\$cpath: '$cpath' - $path: '$path\n";
      $prev_handler ||= $handlers->{handlers}->{string}->{$path} || undef; # $prev_handler gets the first found
      handler
    }

    _set_special_handler    ( $handlers, $path, $handler, $prev_handler)
  || _set_pi_handler        ( $handlers, $path, $handler, $prev_handler)
  || _set_level_handler     ( $handlers, $path, $handler, $prev_handler)
  || _set_regexp_handler    ( $handlers, $path, $handler, $prev_handler)
  || _set_xpath_handler     ( $handlers, $path, $handler, $prev_handler)
  || croak "unrecognized expression in handler: '$whole_path'";
}

```

```

    # this both takes care of the simple (gi) handlers and store
    # the handler code reference for other handlers
    $handlers->{handlers}->{string}->{$path}= $handler;
}

if( $cpath) { croak "unrecognized expression in
handler: '$whole_path'"; }

return $prev_handler;
}

sub _set_special_handler
{ my( $handlers, $path, $handler, $prev_handler)= @_;
  if( $path =~ m{^\s*($ALL|$DEFAULT|$COMMENT|$TEXT)\s*$}io )
    { $handlers->{handlers}->{$1}= $handler;
      return 1;
    }
  else
    { return 0; }
}

sub _set_xpath_handler
{ my( $handlers, $path, $handler, $prev_handler)= @_;
  if( my $handler_data= _parse_xpath_handler( $path, $handler))
    { _add_handler( $handlers, $handler_data, $path, $prev_handler);
      return 1;
    }
  else
    { return 0; }
}

sub _add_handler
{ my( $handlers, $handler_data, $path, $prev_handler)= @_;

  my $tag= $handler_data->{tag};
  my @handlers= $handlers->{xpath_handler}->{$tag} ? @{$handlers->{xpath_handler}->{$tag}} : ();

  if( $prev_handler) { @handlers= grep { $_->{path} ne $path } @handlers; }

  push @handlers, $handler_data if( $handler_data->{handler});

  if( @handlers > 1)
    { @handlers= sort
    { (($b->{score}->{type} || 0) <=> ($a->{score}->{type} || 0))
      || (($b->{score}->{anchored} || 0) <=> ($a->{score}->{anchored} || 0))
      || (($b->{score}->{steps} || 0) <=> ($a->{score}->{steps} || 0))
    }
  }
}

```

```

        || (($b->{score}->{predicates} || 0) <=> ($a->{score}->{predicates} || 0))
        || (($b->{score}->{tests} || 0) <=> ($a->{score}->{tests} || 0))
        || ($a->{path} cmp $b->{path})
    } @handlers;
}

$handlers->{xpath_handler}->{$tag} = \@handlers;
}

sub _set_pi_handler
{ my( $handlers, $path, $handler, $prev_handler) = @_;
  # PI conditions ( '?target' => \&handler or '?' => \&handler
  # or '#PItarget' => \&handler or '#PI' => \&handler)
  if( $path =~ /\^s*(?:\?|PI)s*(?:([\^s]*)s*)$/ )
  { my $target = $1 || "";
    # update the path_handlers count, knowing
    that
    # either the previous or the new handler can be undef
    $handlers->{pi_handlers}->{$1} = $handler;
    return 1;
  }
  else
  { return 0;
  }
}

sub _set_level_handler
{ my( $handlers, $path, $handler, $prev_handler) = @_;
  if( $path =~ m{^\s* level \s* \( \s* ([0-9]+) \s* \) \s* $}ox )
  { my $level = $1;
    my $sub = sub { my( $stack) = @_; return( ($stack->[-1]->{$ST_TAG}) !~ m{^#}) && (scalar @$stack ==
$level + 1) ) };
    my $handler_data = { tag => "*", score => { type => $LEVEL_TRIGGER }, trigger => $sub,
      path => $path, handler => $handler, test_on_text => 0
    };
    _add_handler( $handlers, $handler_data, $path, $prev_handler);
    return 1;
  }
  else
  { return 0; }
}

sub _set_regexp_handler
{ my( $handlers, $path, $handler, $prev_handler) = @_;
  # if the expression was a regexp it is now a string (it was stringified when it became a hash
  key)
  if( $path =~ m{^\(?(?([\^xism]*)?(?:-[\^xism]*)?:?(.*)\))$} )
  { my $regexp = qr/($1:$2)/; # convert it back into a regexp

```

```

my $sub= sub { my( $stack)= @_; return( $stack->[-1]->{$ST_TAG} =~ $regexp ) };
my $handler_data= { tag=> '*', score => { type => $REGEXP_TRIGGER } , trigger => $sub,
    path => $path, handler => $handler, test_on_text => 0
};
_add_handler( $handlers, $handler_data, $path, $prev_handler);
return 1;
}
else
{ return 0; }
}

my $DEBUG_HANDLER= 0; # 0 or 1 (output the handler checking code) or 2 (super verbose)
my $handler_string; # store the handler itself
sub _set_debug_handler { $DEBUG_HANDLER= shift; }
sub _warn_debug_handler { if( $DEBUG_HANDLER < 3) { warn @_; } else { $handler_string .= join( " , @_); }
}
sub _return_debug_handler { my $string= $handler_string; $handler_string=""; return $string; }

sub _parse_xpath_handler
{ my( $xpath,
$handler)= @_;
my $xpath_original= $xpath;

if( $DEBUG_HANDLER >=1) { _warn_debug_handler( "\n\nparsing path '$xpath'\n"); }

my $path_to_check= $xpath;
$path_to_check=~ s{//?$REG_TAG_PART?s*(?:$REG_PREDICATE\s*)?}{ }g;
if( $DEBUG_HANDLER && $path_to_check=~ /\S/) { _warn_debug_handler( "left: $path_to_check\n"); }
return if( $path_to_check=~ /\S/);

(my $xpath_to_display= $xpath)=~ s{([{"'\[\]\@\$])}{\\$1}g;

my @xpath_steps;
my $last_token_is_sep;

while( $xpath=~ s{^(\s*
    ( (/?) # separator
    | (?:$REG_TAG_PART\s*(?:$REG_PREDICATE\s*)?) # tag name and optional predicate
    | (?:$REG_PREDICATE) # just a predicate
    )
}
){}x
)
{ # check that we have alternating separators and steps
if( $2) # found a separator
{ if( $last_token_is_sep)

```



```

{ return 0; } # 2 separators in a row
    $last_token_is_sep= 1;
    }
else
    { if( defined( $last_token_is_sep) && !$last_token_is_sep) { return 0; } # 2 steps in a row
      $last_token_is_sep= 0;
    }

    push @xpath_steps, $1;
}
if( $last_token_is_sep) { return 0; } # expression cannot end with a separator

my $i=-1;

my $perlfunc= _join_n( $NO_WARNINGS . ' ';
    q|my( $stack)= @_ ; |,
    q|my @current_elts= (scalar @$stack); |,
    q|my @new_current_elts; |,
    q|my $elt; |,
    ($DEBUG_HANDLER >= 1) && (qq#warn q{checking path '$xpath_to_display'\n'};#),
);

my $last_tag="";
my $anchored= $xpath_original=~ m{^s*/(?:/)} ? 1 : 0;
my $score={ type => $XPATH_TRIGGER,
anchored => $anchored };
my $flag= { test_on_text => 0 };
my $sep='/'; # '/' or '/'
while( my $xpath_step= pop @xpath_steps)
    { my( $tag, $predicate)= $xpath_step =~ m{^($REG_TAG_PART)?(?:\[([.*])\])?s*$};
      $score->{steps}++;
      $tag||="*";

my $warn_empty_stack= $DEBUG_HANDLER >= 2 ? qq{warn "return with empty stack\n";} : "";

if( $predicate)
    { if( $DEBUG_HANDLER >= 2) { _warn_debug_handler( "predicate is: '$predicate'\n"); }
      # changes $predicate (from an XPath expression to a Perl one)
      if( $predicate=~ m{^s*$REG_NUMBERs*$}) { croak "position selector [$predicate] not supported on
twig_handlers"; }
      _parse_predicate_in_handler( $predicate, $flag, $score);
      if( $DEBUG_HANDLER >= 2) { _warn_debug_handler( "predicate becomes: '$predicate'\n"); }
    }

my $tag_cond= _tag_cond( $tag);
my $cond= join( " && ", grep { $_ } $tag_cond, $predicate) || 1;

```

```

if( $css_sel && $tag=~ m{\.}) { $tag=~s{\.[^\.]*$}{}; $tag ||= '*'; }
$tag=~ s{(.)+$}{$1};

$last_tag ||= $tag;

if( $sep eq '/')
{
    $perlfunc .= sprintf( _join_n( q#foreach my $current_elt (@current_elts)      #,
                                q# { next if( !$current_elt);                    #,
                                q#   $current_elt--;                            #,
                                q#   $elt= $stack->[$current_elt];                #,
                                q#   if( %s) { push @new_current_elts, $current_elt; } #,
                                q# }                                             #,
                                ),
                        $cond
                    );
}
elsif( $sep eq '/')
{
    $perlfunc .= sprintf( _join_n( q#foreach my $current_elt
(@current_elts)      #,
                    q# { next if( !$current_elt);                    #,
                    q#   $current_elt--;                            #,
                    q#   my $candidate= $current_elt;                #,
                    q#   while( $candidate >=0)                      #,
                    q#   { $elt= $stack->[$candidate];                #,
                    q#       if( %s) { push @new_current_elts, $candidate; } #,
                    q#       $candidate--;                            #,
                    q#   }                                           #,
                    q# }                                             #,
                    ),
                        $cond
                    );
}
my $warn= $DEBUG_HANDLER >= 2 ? _join_n( qq#warn qq%fail at cond '$cond'%;#) : ";
$perlfunc .= sprintf( _join_n( q#unless( @new_current_elts) { %s return 0; } #,
                            q#@current_elts= @new_current_elts;      #,
                            q#@new_current_elts=();                  #,
                            ),
                    $warn
                );

$sep= pop @xpath_steps;
}

```

if(\$anchored) # there should be a better way, but this works

```

{
    my $warn= $DEBUG_HANDLER >= 2 ? _join_n( qq#warn qq{fail, stack not empty};#) : "";
    $perlfunc .= sprintf( _join_n( q#if( ! grep { $_ == 0 } @current_elts) { %s return 0; }#), $warn);
}

$perlfunc.= qq{warn "handler for '$xpath_to_display' triggered\\n";\\n} if( $DEBUG_HANDLER >=2);
$perlfunc.= qq{return q{$xpath_original};\\n};
_warn_debug_handler( "\\nperlfunc:\\n$perlfunc\\n") if( $DEBUG_HANDLER>=1);
my $s= eval "sub { $perlfunc }";
if( $@)
    { croak "wrong handler condition '$xpath' ($@);" }

_warn_debug_handler( "last tag: '$last_tag', test_on_text: '$flag->{test_on_text}'\\n") if( $DEBUG_HANDLER
>=1);
_warn_debug_handler( "score: ", join( ' ', map { "$_: $score->{$_}" } sort keys %$score), "\\n") if(
$DEBUG_HANDLER >=1);
return { tag=> $last_tag, score => $score, trigger => $s, path => $xpath_original, handler => $handler,
test_on_text => $flag->{test_on_text} };
}

sub _join_n { return join( "\\n", @_, ""); }

# the "tag" part can be <tag>, <tag>.<class> or <tag>#<id> (where tag can be *, or start with # for hidden tags)
sub _tag_cond
{ my( $full_tag)= @_;

    my( $tag, $class, $id);
    if( $full_tag=~ m{^(.+)#(.+)$})
        { ($tag, $id)= ($1, $2); } # <tag>#<id>
    else
        { ( $tag, $class)= $css_sel ? $full_tag=~ m{^(.*?)(?:\\.([^\.]*)?)?$}
: ($full_tag, undef); }

    my $tag_cond = $tag && $tag ne '*' ? qq#(\$elt->{'$ST_TAG'} eq "$tag")# : ";
    my $id_cond = defined $id ? qq#(\$elt->{id} eq "$id")# : ";
    my $class_cond = defined $class ? qq#(\$elt->{class}=~ m{^(\\|)$class(\\|)}#) : ";

    my $full_cond= join( ' && ', grep { $_ } ( $tag_cond, $class_cond, $id_cond));

    return $full_cond;
}

# input: the predicate ($_[0]) which will be changed in place
# flags, a hashref with various flags (like test_on_text)
# the score
sub _parse_predicate_in_handler
{ my( $flag, $score)= @_[1..2];
    $_[0]=~ s/{( ($REG_STRING) # strings

```

```

\@($REG_TAG_NAME)(\s* $REG_MATCH \s* $REG_REGEX) # @att and regexp
\@($REG_TAG_NAME)(?=\s*(?:[><=!]))    # @att followed by a comparison operator
\@($REG_TAG_NAME)                      # @att (not followed by a comparison operator)
|=~|!~
    # matching operators
|(>|<|=|=|!|=)(?=\s*[\d+-])    # test before a number
|(>|<|=|=|!|=)                # test, other cases
|($REG_FUNCTION)              # no arg functions
# this bit is a mess, but it is the only solution with this half-baked parser
|(string(\s*$REG_NAME\s*))\s*$REG_MATCH\s*$REG_REGEX) # string( child)=~ /regexp/
|(string(\s*$REG_NAME\s*))\s*$REG_COMP\s*$REG_STRING) # string( child) = "value" (or other
test)
|(string(\s*$REG_NAME\s*))\s*$REG_COMP\s*$REG_NUMBER) # string( child) = nb (or other test)
|(and|or)
# |($REG_NAME(?:\s*(and|or|$)))    # nested tag name (needs to be after all other unquoted strings)
|($REG_TAG_IN_PREDICATE)          # nested tag name (needs to be after all other unquoted
strings)

)}

{ my( $token, $str, $att_re_name, $att_re_regexp, $att, $bare_att, $num_test, $alpha_test, $func,
$str_regexp, $str_test_alpha, $str_test_num, $and_or, $tag)
= ( $1,  $2,  $3,      $4,      $5,  $6,  $7,  $8,      $9,  $10,  $11,      $12,
$13,  $14);

$score->{predicates}++;

# store tests on text (they are not always allowed)
if( $func || $str_regexp || $str_test_num || $str_test_alpha ) { $flag->{test_on_text}= 1; }

if( defined $str)    { $token }
elsif( $tag)        { qq{(\$elt->{'$ST_ELT'} && \$elt->{'$ST_ELT'}->has_child( 'tag'))} }
elsif( $att)        { $att=~ m{^#} ? qq{ (\$elt->{'$ST_ELT'} && \$elt->{'$ST_ELT'}->{att}->{'$att'})}
                      : qq{\$elt->{'$att'}}
                      }
                      }
elsif( $att_re_name) { $att_re_name=~ m{^#} ? qq{ (\$elt->{'$ST_ELT'} && \$elt->{'$ST_ELT'}-
->{att}->{'$att_re_name'})$att_re_regexp}
                      : qq{\$elt->{'$att_re_name'})$att_re_regexp}
                      }
                      # for some reason Devel::Cover flags the following lines as not tested. They are though.
elsif( $bare_att)    { $bare_att=~ m{^#} ? qq{(\$elt->{'$ST_ELT'} && defined(\$elt->{'$ST_ELT'}-
->{att}->{'$bare_att'}))}
                      : qq{defined( \$elt->{'$bare_att'})}
                      }
                      }
elsif( $num_test && ($num_test eq '=') ) { "==" } # others tests are unchanged
elsif( $alpha_test)  { $PERL_ALPHA_TEST{$alpha_test} }
elsif( $func && $func=~ m{^string})
    { "\$elt->{'$ST_ELT'}->text"; }

```

```

        elsif( $str_regexp
&& $str_regexp    =~ m{string\(s*($REG_TAG_NAME)s*)s*($REG_MATCH)s*($REG_REGEXP))
        { "defined( _first_n { \$_->text $2 $3 } 1, \$_->{'$ST_ELT'}->_children( '$1')"); }

        elsif( $str_test_alpha && $str_test_alpha =~
m{string\(s*($REG_TAG_NAME)s*)s*($REG_COMP)s*($REG_STRING))}
        { my( $tag, $op, $str)= ($1, $2, $3);
          $str=~ s{(?<=.)'(?=.)}{\\}g; # escape a quote within the string
          $str=~ s{^"}{'};
          $str=~ s{"$"}{'};
          "defined( _first_n { \$_->text $PERL_ALPHA_TEST{$op} $str } 1, \$_->{'$ST_ELT'}-
>children( '$tag')"); }

        elsif( $str_test_num && $str_test_num =~
m{string\(s*($REG_TAG_NAME)s*)s*($REG_COMP)s*($REG_NUMBER))}
        { my $test= ($2 eq '=') ? '=' : $2;

          "defined( _first_n { \$_->text $test $3 } 1, \$_->{'$ST_ELT'}->children( '$1')");
        }

        elsif( $and_or)    { $score->{tests}++; $and_or eq 'and' ? '&&' : '||' ; }
        else                { $token; }
    }gexs;
}

```

```

sub setCharHandler
{ my( $t, $handler)= @_ ;
  $t->{twig_char_handler}= $handler;
}

```

```

sub _reset_handlers
{ my $handlers= shift;
  delete $handlers->{handlers};
  delete $handlers->{path_handlers};
  delete $handlers->{subpath_handlers};
  $handlers->{attcond_handlers_exp}=[] if( $handlers->{attcond_handlers});
  delete $handlers->{attcond_handlers};
}

```

```

sub _set_handlers
{ my $handlers= shift || return;
  my $set_handlers= {};
  foreach my $path (keys %{$handlers})
  { _set_handler( $set_handlers, $path, $handlers->{$path}); }

  return $set_handlers;
}

```

```

sub setTwigHandler
{ my( $t, $path, $handler)= @_ ;
  $t->{twig_handlers}
  ||={};
  return _set_handler( $t->{twig_handlers}, $path, $handler);
}

sub setTwigHandlers
{ my( $t, $handlers)= @_ ;
  my $previous_handlers= $t->{twig_handlers} || undef;
  _reset_handlers( $t->{twig_handlers});
  $t->{twig_handlers}= _set_handlers( $handlers);
  return $previous_handlers;
}

sub setStartTagHandler
{ my( $t, $path, $handler)= @_ ;
  $t->{twig_starttag_handlers}||={};
  return _set_handler( $t->{twig_starttag_handlers}, $path, $handler);
}

sub setStartTagHandlers
{ my( $t, $handlers)= @_ ;
  my $previous_handlers= $t->{twig_starttag_handlers} || undef;
  _reset_handlers( $t->{twig_starttag_handlers});
  $t->{twig_starttag_handlers}= _set_handlers( $handlers);
  return $previous_handlers;
}

sub setIgnoreEltsHandler
{ my( $t, $path, $action)= @_ ;
  $t->{twig_ignore_elts_handlers}||={};
  return _set_handler( $t->{twig_ignore_elts_handlers}, $path, $action );
}

sub setIgnoreEltsHandlers
{ my( $t, $handlers)=
@_ ;
  my $previous_handlers= $t->{twig_ignore_elts_handlers};
  _reset_handlers( $t->{twig_ignore_elts_handlers});
  $t->{twig_ignore_elts_handlers}= _set_handlers( $handlers);
  return $previous_handlers;
}

sub setEndTagHandler
{ my( $t, $path, $handler)= @_ ;
  $t->{twig_endtag_handlers}||={};
  return _set_handler( $t->{twig_endtag_handlers}, $path,$handler);
}

```

```
}
```

```
sub setEndTagHandlers
```

```
{ my( $t, $handlers)= @_;  
  my $previous_handlers= $t->{twig_endtag_handlers};  
  _reset_handlers( $t->{twig_endtag_handlers});  
  $t->{twig_endtag_handlers}= _set_handlers( $handlers);  
  return $previous_handlers;  
}
```

```
# a little more complex: set the twig_handlers only if a code ref is given
```

```
sub setTwigRoots
```

```
{ my( $t, $handlers)= @_;  
  my $previous_roots= $t->{twig_roots};  
  _reset_handlers($t->{twig_roots});  
  $t->{twig_roots}= _set_handlers( $handlers);  
  
  _check_illegal_twig_roots_handlers( $t->{twig_roots});  
  
  foreach my $path (keys %{$handlers})  
  
    { $t->{twig_handlers}||= {};  
      _set_handler( $t->{twig_handlers}, $path, $handlers->{$path})  
        if( ref($handlers->{$path}) && isa( $handlers->{$path}, 'CODE'));  
    }  
  return $previous_roots;  
}
```

```
sub _check_illegal_twig_roots_handlers
```

```
{ my( $handlers)= @_;  
  foreach my $tag_handlers (values %{$handlers->{xpath_handler}})  
    { foreach my $handler_data (@$tag_handlers)  
      { if( my $type= $handler_data->{test_on_text})  
        { croak "string() condition not supported on twig_roots option"; }  
      }  
    }  
  return;  
}
```

```
# just store the reference to the expat object in the twig
```

```
sub _twig_init
```

```
{ # warn " in _twig_init...\n"; # DEBUG handler  
  
  my $p= shift;  
  my $t=$p->{twig};  
  
  if( $t->{twig_parsing} ) { croak "cannot reuse a twig that is already parsing"; }
```

```

$t->{twig_parsing}=1;

$t->{twig_parser}= $p;
if( $weakrefs) { weaken( $t->{twig_parser}); }

# in case they had been created by a previous parse
delete $t->{twig_dtd};
delete $t->{twig_doctype};
delete $t->{twig_xmldecl};
delete $t->{twig_root};

# if needed set the output filehandle
$t->_set_fh_to_twig_output_fh();
return;
}

# uses eval to catch the parser's death
sub safe_parse
{ my $t= shift;
  eval { $t->parse( @_); } ;
  return $$ ? $t->_reset_twig_after_error : $t;
}

sub safe_parsefile
{ my $t= shift;
  eval { $t->parsefile( @_); } ;
  return $$ ? $t->_reset_twig_after_error : $t;
}

# restore a twig in a proper state so it can be reused for a new parse
sub _reset_twig
{ my $t= shift;
  $t->{twig_parsing}= 0;
  delete $t->{twig_current};
  delete $t->{extra_data};
  delete $t->{twig_dtd};
  delete $t->{twig_in_pcdata};
  delete $t->{twig_in_cdata};
  delete $t->{twig_stored_space};
  delete $t->{twig_entity_list};
  $t->root->delete if( $t->root);
  delete $t->{twig_root};
  return $t;
}

sub _reset_twig_after_error
{ my $t= shift;
  $t->_reset_twig;
}

```



```

    return undef;
}

sub _add_or_discard_stored_spaces
{ my $t= shift;

    $t->{twig_right_after_root}=0; #XX

    my $current= $t->{twig_current} or return; # ugly hack, with ignore on, twig_current can disappear
    return unless length $t->{twig_stored_spaces};
    my $current_gi= $current->gi;

    if( ! $t->{twig_discard_all_spaces})
    { if( ! defined( $t->{twig_space_policy}->{$current_gi}))
        { $t->{twig_space_policy}->{$current_gi}= _space_policy( $t, $current_gi); }
        if( $t->{twig_space_policy}->{$current_gi} || ($t->{twig_stored_spaces}!~ m{\n}) || $t-
>{twig_preserve_space})
            { _insert_pcddata( $t, $t->{twig_stored_spaces} ); }
        }

    $t->{twig_stored_spaces}="";

    return;
}

# the default twig handlers, which build the tree
sub _twig_start
{ # warn " in _twig_start...\n"; # DEBUG handler

    #foreach my $s (@_) { next if ref $s; warn "$s: ", is_utf8( $s) ? "has flag" : "FLAG NOT SET"; } # YYY

    my ($p, $gi,
@att)= @_;
    my $t=$p->{twig};

    # empty the stored pcddata (space stored in case they are really part of
    # a pcddata element) or stored it if the space policy dictates so
    # create a pcddata element with the spaces if need be
    _add_or_discard_stored_spaces( $t);
    my $parent= $t->{twig_current};

    # if we were parsing PCDATA then we exit the pcddata
    if( $t->{twig_in_pcddata})
    { $t->{twig_in_pcddata}= 0;
        $parent->del_twig_current;
        $parent= $parent->_parent;
    }
}

```

```

# if we choose to keep the encoding then we need to parse the tag
if( my $func = $t->{parse_start_tag})
{ ($gi, @att)= &$func($p->original_string); }
elsif( $t->{twig_entities_in_attribute})
{
($gi,@att)= _parse_start_tag( $p->recognized_string);
$t->{twig_entities_in_attribute}=0;
}

# if we are using an external DTD, we need to fill the default attributes
if( $t->{twig_read_external_dtd}) { _fill_default_atts( $t, $gi, \@att);
}

# filter the input data if need be
if( my $filter= $t->{twig_input_filter})
{ $gi= $filter->($gi);
foreach my $att (@att) { $att= $filter->($att); }
}

my $ns_decl;
if( $t->{twig_map_xmlns})
{ $ns_decl= _replace_ns( $t, $gi, \@att); }

my $elt= $t->{twig_elt_class}->new( $gi);
$elt->set_atts( @att);

# now we can store the tag and atts
my $context= { $ST_TAG => $gi, $ST_ELT => $elt, @att};
$context->{$ST_NS}= $ns_decl if $ns_decl;
if( $weakrefs) { weaken( $context->{$ST_ELT}); }
push @{$t->{_twig_context_stack}}, $context;

$parent->del_twig_current if( $parent);
$t->{twig_current}= $elt;
$elt->set_twig_current;

if( $parent)
{ my $prev_sibling= $parent->_last_child;
if( $prev_sibling)
{ $prev_sibling->set_next_sibling( $elt);
$elt->set_prev_sibling( $prev_sibling);
}

$elt->set_parent( $parent);
unless( $parent->_first_child)
{ $parent->set_first_child( $elt); }
$parent->set_last_child( $elt);
}

```

```

    }
else
{ # processing root
    $t->set_root( $elt);
    # call dtd handler if need be
    $t->{twig_dtd_handler}->($t, $t->{twig_dtd})
        if( defined $t->{twig_dtd_handler});

    # set this so we can catch external entities
    # (the handler was modified during DTD processing)
    if( $t->{twig_default_print})
    { $p->setHandlers( Default => \&_twig_print); }
    elsif( $t->{twig_roots})
    { $p->setHandlers( Default => sub { return }); }
    else
    { $p->setHandlers( Default => \&_twig_default); }
}

$elt->set_empty( $p->recognized_string=~ m{/s*>$}s ? 1 : 0);

$elt->{extra_data}= $t->{extra_data} if( $t->{extra_data});
$t->{extra_data}="";

# if the element is ID-ed then store that info
my $id= $elt->id;
if( defined $id)
{ $t->{twig_id_list}->{$id}= $elt;
    if( $weakrefs)
{ weaken( $t->{twig_id_list}->{$id}); }
}

# call user handler if need be
if( $t->{twig_starttag_handlers})
{ # call all appropriate handlers
    my @handlers= _handler( $t, $t->{twig_starttag_handlers}, $gi);

    local $_= $elt;

    foreach my $handler ( @handlers)
    { $handler->($t, $elt) || last; }
    # call _all_ handler if needed
    if( my $all= $t->{twig_starttag_handlers}->{handlers}->{$ALL})
    { $all->($t, $elt); }
}

# check if the tag is in the list of tags to be ignored
if( $t->{twig_ignore_elts_handlers})
{ my @handlers= _handler( $t, $t->{twig_ignore_elts_handlers}, $gi);

```

```

# only the first handler counts, it contains the action (discard/print/string)
if( @handlers) { my $action= shift @handlers; $t->ignore( $elt, $action); }
}

if( $elt->att( 'xml:space') && ( $elt->att( 'xml:space') eq 'preserve')) { $t->{twig_preserve_space}++; }

return;
}

sub
_replace_ns
{ my( $t, $gi, $atts)= @_;
  my $decls;
  foreach my $new_prefix ( $t->parser->new_ns_prefixes)
  { my $uri= $t->parser->expand_ns_prefix( $new_prefix);
    # replace the prefix if it is mapped
    $decls->{$new_prefix}= $uri;
    if( !$t->{twig_keep_original_prefix} && (my $mapped_prefix= $t->{twig_map_xmlns}->{$uri}))
    { $new_prefix= $mapped_prefix; }
    # now put the namespace declaration back in the element
    if( $new_prefix eq '#default')
    { push @$atts, "xmlns" => $uri; }
    else
    { push @$atts, "xmlns:$new_prefix" => $uri; }
  }
}

if( $t->{twig_keep_original_prefix})
{ # things become more complex: we need to find the original prefix
  # and store both prefixes
  my $ns_info= $t->_ns_info( $$gi);
  my $map_att;
  if( $ns_info->{mapped_prefix})
  { $$gi= "$ns_info->{mapped_prefix}:$$gi";
    $map_att->{$ns_info->{mapped_prefix}}= $ns_info->{prefix};
  }
  my $att_name=1;
  foreach( @$atts)
  { if( $att_name)
    {
      my $ns_info= $t->_ns_info( $_);
      if( $ns_info->{mapped_prefix})
      { $_= "$ns_info->{mapped_prefix}:$_";
        $map_att->{$ns_info->{mapped_prefix}}= $ns_info->{prefix};
      }
      $att_name=0;
    }
  }
  else

```

```

        { $att_name=1; }
    }
    push @$atts, '#original_gi', $map_att if( $map_att);
}
else
{
    $$gi= $t->_replace_prefix( $$gi);
    my $att_name=1;
    foreach( @$atts)
    {
        if( $att_name) { $_= $t->_replace_prefix( $_); $att_name=0; }
        else { $att_name=1; }
    }
}
return $decls;
}

```

extract prefix, local_name, uri, mapped_prefix from a name

will only work if called from a start or end tag handler

sub _ns_info

```
{ my( $t, $name)= @_;
```

```
my $ns_info={};
```

```
my $p=
```

```
$t->parser;
```

```
$ns_info->{uri}= $p->namespace( $name);
```

```
return $ns_info unless( $ns_info->{uri});
```

```
$ns_info->{prefix}= _a_proper_ns_prefix( $p, $ns_info->{uri});
```

```
$ns_info->{mapped_prefix}= $t->{twig_map_xmlns}->{$ns_info->{uri}} || $ns_info->{prefix};
```

```
return $ns_info;
```

```
}
```

sub _a_proper_ns_prefix

```
{ my( $p, $uri)= @_;
```

```
foreach my $prefix ( $p->current_ns_prefixes)
```

```
{ if( $p->expand_ns_prefix( $prefix) eq $uri)
```

```
{ return $prefix; }
```

```
}
```

```
return;
```

```
}
```

returns the uri bound to a prefix in the original document

only works in a handler

can be used to deal with xsi:type attributes

sub original_uri

```
{ my( $t, $prefix)= @_;
```

```
my $ST_NS = '##ns';
```

```
foreach my $ns (map { $_->{$ST_NS} if $_->{$ST_NS} } reverse @{$t->{_twig_context_stack}})
```

```

    { return $ns->{$prefix} || next; }
return;
}

```

```

sub _fill_default_atts
{ my( $t, $gi, $atts)= @_ ;
  my $dtd= $t->{twig_dtd};
  my $attlist= $dtd->{att}->{$gi};
  my %value= @$atts;
  foreach my $att (keys %$attlist)
  { if( !exists( $value{$att})
    && exists( $attlist->{$att}->{default})
    && ( $attlist->{$att}->{default} ne '#IMPLIED')
    )
    { # the quotes are included in the default, so we need to remove them
      my $default_value= substr( $attlist->{$att}->{default}, 1, -1);
      push @$atts, $att, $default_value;
    }
  }
return;
}

```

the default function to parse a start tag (in keep_encoding mode)
can be overridden with the parse_start_tag method
only works for 1-byte character sets

```

sub _parse_start_tag
{ my $string= shift;
  my( $gi, @atts);

  # get the gi (between < and the first space, / or > character)
  #if( $string=~ s{^<\s*([^\s>/]*)[\s>/]*}{ }s)
  if( $string=~ s{^<\s*($REG_TAG_NAME)\s*[\s>/]}{ }s)
  { $gi= $1; }
  else
  { croak "error parsing tag '$string'"; }
  while( $string=~ s{^([^\s=]*)\s*=\s*("["])(.*)\2\s*}{ }s)
  { push @atts, $1, $3; }
}
return $gi, @atts;
}

```

```

sub set_root
{ my( $t, $elt)= @_ ;
  $t->{twig_root}= $elt;
  if( $elt)
  { $elt->{twig}= $t;

```

```

        if( $weakrefs) { weaken( $elt->{twig}); }
    }
    return $t;
}

sub _twig_end
{ # warn " in _twig_end...\n"; # DEBUG handler
    my ($p, $gi) = @_ ;

    my $t=$p->{twig};

    if( $t->{twig_in_pcddata} && (my $text_handler= $t->{TwigHandlers}->{$TEXT}) )
    { local $_= $t->{twig_current}; $text_handler->( $t, $_) if $_;
    }

    if( $t->{twig_map_xmlns}) { $gi= $t->_replace_prefix( $gi); }

    _add_or_discard_stored_spaces( $t);

    # the new twig_current is the parent
    my $elt= $t->{twig_current};
    $elt->del_twig_current;

    # if we were parsing PCDATA then we exit the pcddata too
    if( $t->{twig_in_pcddata})
    {
        $t->{twig_in_pcddata}= 0;
        $elt= $elt->_parent if($elt->_parent);
        $elt->del_twig_current;
    }

    # parent is the new current element
    my $parent= $elt->_parent;
    $t->{twig_current}=
    $parent;

    if( $parent)
    { $parent->set_twig_current;
      # twig_to_be_normalized
      if( $parent->{twig_to_be_normalized}) { $parent->normalize; $parent->{twig_to_be_normalized}=0; }
    }

    if( $t->{extra_data})
    { $elt->_set_extra_data_before_end_tag( $t->{extra_data});
      $t->{extra_data}="";
    }

    if( $t->{twig_handlers})

```

```

{ # look for handlers
my @handlers= _handler( $t, $t->{twig_handlers}, $gi);

if( $t->{twig_tdh})
{ if( @handlers) { push @{$t->{twig_handlers_to_trigger}}, [ $elt, \@handlers ]; }
  if( my $all= $t->{twig_handlers}->{handlers}->{$ALL})
    { push @{$t->{twig_handlers_to_trigger}}, [ $elt, [$all] ]; }
}
else
{
  local $_= $elt; # so we can use $_ in the handlers

  foreach my $handler ( @handlers)
    { $handler->($t, $elt) || last; }
  # call _all_ handler if needed

my $all= $t->{twig_handlers}->{handlers}->{$ALL};
  if( $all)
    { $all->($t, $elt); }
  if( @handlers || $all) { $t->{twig_right_after_root}=0; }
}
}

# if twig_roots is set for the element then set appropriate handler
if( $t->{twig_root_depth} and ($p->depth == $t->{twig_root_depth}))
{ if( $t->{twig_default_print})
  { # select the proper fh (and store the currently selected one)
    $t->_set_fh_to_twig_output_fh();
    if( !$p->depth==1) { $t->{twig_right_after_root}=1; } #XX
    if( $t->{twig_keep_encoding})
      { $p->setHandlers( %twig_handlers_roots_print_original); }
    else
      { $p->setHandlers( %twig_handlers_roots_print); }
  }
else
  { $p->setHandlers( %twig_handlers_roots); }
}

if( $elt->att( 'xml:space') && ( $elt->att( 'xml:space') eq 'preserve')) { $t->{twig_preserve_space}--; }

pop @{$t->{_twig_context_stack}};
return;
}

sub _trigger_tdh
{ my( $t)= @_;

  if( @{$t->{twig_handlers_to_trigger}})

```



```

    { my @handlers_to_trigger_now= sort { $a->[0]->cmp( $b->[0]) } @{$t->{twig_handlers_to_trigger}};
    foreach my $elt_handlers (@handlers_to_trigger_now)
    { my( $handled_elt, $handlers_to_trigger)= @$elt_handlers;
      foreach my $handler ( @$handlers_to_trigger)
      { local $_= $handled_elt; $handler->($t, $handled_elt) || last; }
    }
  }
  return;
}

```

return the list of handler that can be activated for an element
 # (either of CODE ref's or 1's for twig_roots)

```

sub _handler
{ my( $t, $handlers, $gi)= @_ ;

  my @found_handlers=();
  my $found_handler;

  foreach my $handler ( map { @$_ } grep { $_ } $handlers->{xpath_handler}->{$gi}, $handlers-
    >{xpath_handler}->{'*'})
  { my $trigger= $handler->{trigger};
    if( my $found_path= $trigger->( $t->{_twig_context_stack}))
    { my $found_handler= $handler->{handler};
      push @found_handlers, $found_handler;
    }
  }

  # if no handler found call default handler if defined
  if( !@found_handlers && defined $handlers->{handlers}->{$DEFAULT})
  { push @found_handlers, $handlers->{handlers}->{$DEFAULT}; }

  if( @found_handlers and $t->{twig_do_not_chain_handlers})
  { @found_handlers= ($found_handlers[0]); }

  return @found_handlers; # empty if no handler found

}

```

```

sub _replace_prefix
{ my( $t, $name)= @_ ;
  my $p= $t->parser;
  my $uri= $p->namespace( $name);
  # try to get the namespace from default if none is found (for attributes)
  # this should probably be an option
  if( !$uri and( $name!~/^xml/)) { $uri= $p->expand_ns_prefix( '#default'); }
  if( $uri)

```

```

{ if (my $mapped_prefix= $t->{twig_map_xmlns}->{$uri} || $DEFAULT_URI2NS{$uri})
  { return "$mapped_prefix:$name"; }
  else
    { my $prefix= _a_proper_ns_prefix( $p, $uri);
      if( $prefix eq '#default')
    { $prefix=""; }
      return $prefix ? "$prefix:$name" : $name;
    }
  }
}
else
  { return $name; }
}

```

sub _twig_char

```
{ # warn " in _twig_char...\n"; # DEBUG handler
```

```
my ($p, $string)= @_;
```

```
my $t=$p->{twig};
```

```
if( $t->{twig_keep_encoding})
```

```
{ if( !$t->{twig_in_cdata})
```

```
{ $string= $p->original_string(); }
```

```
else
```

```
{
```

```
use bytes; # > perl 5.5
```

```
if( length( $string) < 1024)
```

```
{ $string= $p->original_string(); }
```

```
else
```

```
{ #warn "dodgy case";
```

```
# TODO original_string does not hold the entire string, but $string is wrong
```

```
# I believe due to a bug in XML::Parser
```

```
# for now, we use the original string, even if it means that it's been converted to utf8
```

```
}
```

```
}
```

```
}
```

```
if( $t->{twig_input_filter}) { $string= $t->{twig_input_filter}->( $string); }
```

```
if( $t->{twig_char_handler}) { $string= $t->{twig_char_handler}->(
$string); }
```

```
my $elt= $t->{twig_current};
```

```
if( $t->{twig_in_cdata})
```

```
{ # text is the continuation of a previously created cdata
```

```
$elt->append_cdata( $t->{twig_stored_spaces} . $string);
```

```
}
```

```
elsif( $t->{twig_in_pdata})
```

```

    { # text is the continuation of a previously created pcddata
      if( $t->{extra_data})
        { $elt->_push_extra_data_in_pcddata( $t->{extra_data}, length( $elt->{pcdata}));
          $t->{extra_data}="";
        }
      $elt->append_pcddata( $string);
    }
  else
  {
    # text is just space, which might be discarded later
    if( $string=~^\A\s*\Z/s)
    {
      if( $t->{extra_data})
        { # we got extra data (comment, pi), lets add the spaces to it
          $t->{extra_data} .= $string;
        }
      else
        { # no extra data, just store the spaces
          $t->{twig_stored_spaces} .= $string;
        }
    }
  }
  else
  { my $new_elt= _insert_pcddata( $t, $t->{twig_stored_spaces}.$string);
    $elt->del_twig_current;
    $new_elt->set_twig_current;
    $t->{twig_current}= $new_elt;
    $t->{twig_in_pcddata}=1;
    if( $t->{extra_data})
      { $new_elt->_push_extra_data_in_pcddata( $t->{extra_data}, 0);
        $t->{extra_data}="";
      }
    }
  }
}
return;
}

```

```

sub _twig_cdatastart

```

```

{ # warn " in _twig_cdatastart...\n"; # DEBUG handler

```

```

my $p= shift;

```

```

my $t=$p->{twig};

```

```

$t->{twig_in_cdata}=1;

```

```

my $cdata= $t->{twig_elt_class}->new( $CDATA);

```

```

my $twig_current= $t->{twig_current};

```

```

if( $t->{twig_in_pcddata})

```

```

    { # create the node as a sibling of the PCDATA
      $cdata->set_prev_sibling( $twig_current);
      $twig_current->set_next_sibling( $cdata);
      my $parent= $twig_current->_parent;
      $cdata->set_parent( $parent);
      $parent->set_last_child( $cdata);
      $t->{twig_in_pcddata}=0;
    }
  else
  { # we have to create a PCDATA element if we need to store spaces
    if( $t->_space_policy($twig_current->gi) && $t->{twig_stored_spaces})
      { _insert_pcddata( $t, $t->{twig_stored_spaces}); }
    $t->{twig_stored_spaces}="";

    # create the node as a child of the current element
    $cdata->set_parent( $twig_current);
    if( my $prev_sibling= $twig_current->_last_child)
      { $cdata->set_prev_sibling( $prev_sibling);
        $prev_sibling->set_next_sibling( $cdata);
      }
    else
      { $twig_current->set_first_child( $cdata); }
    $twig_current->set_last_child( $cdata);

  }

  $twig_current->del_twig_current;
  $t->{twig_current}= $cdata;
  $cdata->set_twig_current;
  if( $t->{extra_data}) { $cdata->set_extra_data( $t->{extra_data}); $t->{extra_data}=" "; }
  return;
}

sub _twig_cdataend
{ # warn " in _twig_cdataend...\n"; #
  DEBUG handler

  my $p= shift;
  my $t=$p->{twig};

  $t->{twig_in_cdata}=0;

  my $elt= $t->{twig_current};
  $elt->del_twig_current;
  my $cdata= $elt->cdata;
  $elt->_set_cdata( $cdata);

  push @{$t->{_twig_context_stack}}, { $ST_TAG => $CDATA };

```

```

if( $t->{twig_handlers})
{ # look for handlers
  my @handlers= _handler( $t, $t->{twig_handlers}, $CDATA);
  local $_= $elt; # so we can use $_ in the handlers
  foreach my $handler ( @handlers) { $handler->($t, $elt) || last; }
}

pop @{$t->{_twig_context_stack}};

$elt= $elt->_parent;
$t->{twig_current}= $elt;
$elt->set_twig_current;

$t->{twig_long_cdata}=0;
return;
}

sub _pi_elt_handlers
{ my( $t, $pi)= @_ ;
  my $pi_handlers= $t->{twig_handlers}->{pi_handlers} || return;
  foreach my $handler ( $pi_handlers->{$pi->target}, $pi_handlers->{""})
  { if( $handler) { local $_= $pi; $handler->( $t, $pi) || last; } }
}

sub _pi_text_handler
{ my( $t,
$target, $data)= @_ ;
  if( my $handler= $t->{twig_handlers}->{pi_handlers}->{$target})
  { return $handler->( $t, $target, $data); }
  if( my $handler= $t->{twig_handlers}->{pi_handlers}->{""})
  { return $handler->( $t, $target, $data); }
  return defined( $data) && $data ne " ? "<$target $data?>" : "<$target?>" ;
}

sub _comment_elt_handler
{ my( $t, $comment)= @_ ;
  if( my $handler= $t->{twig_handlers}->{handlers}->{$COMMENT})
  { local $_= $comment; $handler->($t, $comment); }
}

sub _comment_text_handler
{ my( $t, $comment)= @_ ;
  if( my $handler= $t->{twig_handlers}->{handlers}->{$COMMENT})
  { $comment= $handler->($t, $comment);
    if( !defined $comment || $comment eq "") { return ""; }
  }
  return "<!--$comment-->";
}

```

```
}
```

```
sub _twig_comment
```

```
{ # warn " in _twig_comment...\n"; # DEBUG handler
```

```
my( $p, $comment_text)= @_;
```

```
my $t=$p->{twig};
```

```
if( $t->{twig_keep_encoding}) { $comment_text= substr( $p->original_string(),  
4, -3); }
```

```
$t->_twig_pi_comment( $p, $COMMENT, $t->{twig_keep_comments}, $t->{twig_process_comments},  
'_set_comment', '_comment_elt_handler', '_comment_text_handler', $comment_text  
);
```

```
return;
```

```
}
```

```
sub _twig_pi
```

```
{ # warn " in _twig_pi...\n"; # DEBUG handler
```

```
my( $p, $target, $data)= @_;
```

```
my $t=$p->{twig};
```

```
if( $t->{twig_keep_encoding})  
{ my $pi_text= substr( $p->original_string(), 2, -2);  
( $target, $data)= split( /\s+/, $pi_text, 2);  
}
```

```
$t->_twig_pi_comment( $p, $PI, $t->{twig_keep_pi}, $t->{twig_process_pi},  
'_set_pi', '_pi_elt_handlers', '_pi_text_handler', $target, $data  
);
```

```
return;
```

```
}
```

```
sub _twig_pi_comment
```

```
{ my( $t, $p, $type, $keep, $process, $set, $elt_handler, $text_handler, @parser_args)= @_;
```

```
if( $t->{twig_input_filter})  
{ foreach my $arg (@parser_args) { $arg= $t->{twig_input_filter}->( $arg);  
} }
```

```
# if pi/comments are to be kept then we piggyback them to the current element
```

```
if( $keep)
```

```
{ # first add spaces
```

```
if( $t->{twig_stored_spaces})
```

```
{ $t->{extra_data} .= $t->{twig_stored_spaces};
```

```

        $t->{twig_stored_spaces}="";
    }

    my $extra_data= $t->$text_handler( @parser_args);
    $t->{extra_data}.= $extra_data;

}
elsif( $process)
{
    my $twig_current= $t->{twig_current}; # defined unless we are outside of the root

    my $elt= $t->{twig_elt_class}->new( $type);
    $elt->$set( @parser_args);
    if( $t->{extra_data})
    { $elt->set_extra_data( $t->{extra_data});
      $t->{extra_data}="";
    }

    unless( $t->root)
    { $t->_add_cpi_outside_of_root( leading_cpi => $elt);
    }
    elsif( $t->{twig_in_pcddata})
    { # create the node as a sibling of the PCDATA
      $elt->paste_after( $twig_current);

$t->{twig_in_pcddata}=0;
    }
    elsif( $twig_current)
    { # we have to create a PCDATA element if we need to store spaces
      if( $t->_space_policy($twig_current->gi) && $t->{twig_stored_spaces})
      { _insert_pcddata( $t, $t->{twig_stored_spaces}); }
      $t->{twig_stored_spaces}="";
      # create the node as a child of the current element
      $elt->paste_last_child( $twig_current);
    }
    else
    { $t->_add_cpi_outside_of_root( trailing_cpi => $elt); }

    if( $twig_current)
    { $twig_current->del_twig_current;
      my $parent= $elt->_parent;
      $t->{twig_current}= $parent;
      $parent->set_twig_current;
    }

    $t->$elt_handler( $elt);
}

```

```
}
```

```
# add a comment or pi before the first element
```

```
sub _add_cpi_outside_of_root
```

```
{ my($t, $type, $elt)= @_ ; # $type is 'leading_cpi' or 'trailing_cpi'  
  $t->{$type} ||= $t->{twig_elt_class}->new( '#CPI');  
  # create the node as a child of the current element  
  $elt->paste_last_child( $t->{$type});  
  return $t;  
}
```

```
sub _twig_final
```

```
{ # warn " in _twig_final...\n"; # DEBUG handler
```

```
my $p= shift;
```

```
my $t= $p->isa( 'XML::Twig') ? $p : $p->{twig};
```

```
# store trailing data
```

```
if( $t->{extra_data}) { $t->{trailing_cpi_text} = $t->{extra_data}; $t->{extra_data}=""; }  
$t->{trailing_spaces}= $t->{twig_stored_spaces} || "  
my $s= $t->{twig_stored_spaces}; $s=~s{\n}{\n}g;  
if( $t->{twig_stored_spaces}) { my $s= $t->{twig_stored_spaces}; }
```

```
# restore the selected filehandle if needed
```

```
$t->_set_fh_to_selected_fh();
```

```
$t->_trigger_tdh if( $t->{twig_tdh});
```

```
select $t->{twig_original_selected_fh} if($t->{twig_original_selected_fh}); # probably dodgy
```

```
if( exists $t->{twig_autoflush_data})
```

```
{ my @args;
```

```
  push @args, $t->{twig_autoflush_data}->{fh}    if( $t->{twig_autoflush_data}->{fh});
```

```
  push @args, @{$t->{twig_autoflush_data}->{args}}
```

```
if( $t->{twig_autoflush_data}->{args});
```

```
  $t->flush( @args);
```

```
  delete $t->{twig_autoflush_data};
```

```
  $t->root->delete if $t->root;
```

```
}
```

```
# tries to clean-up (probably not very well at the moment)
```

```
#undef $p->{twig};
```

```
undef $t->{twig_parser};
```

```
delete $t->{twig_parsing};
```

```
@{$t}{ qw( twig_parser twig_parsing _twig_context_stack twig_current) }=();
```

```
return $t;
```



```

}

sub _insert_pcddata
{ my( $t, $string)= @_;
  # create a new PCDATA element
  my $parent= $t->{twig_current}; # always defined
  my $elt;
  if( exists $t->{twig_alt_elt_class})
  { $elt= $t->{twig_elt_class}->new( $PCDATA);
    $elt->_set_pcddata( $string);
  }
  else
  { $elt= bless( { gi => $XML::Twig::gi2index{$PCDATA}, pcddata => $string }, 'XML::Twig::Elt'); }

  my $prev_sibling= $parent->_last_child;
  if( $prev_sibling)
  { $prev_sibling->set_next_sibling( $elt);
    $elt->set_prev_sibling( $prev_sibling);
  }
  else

{ $parent->set_first_child( $elt); }

  $elt->set_parent( $parent);
  $parent->set_last_child( $elt);
  $t->{twig_stored_spaces}="";
  return $elt;
}

sub _space_policy
{ my( $t, $gi)= @_;
  my $policy;
  $policy=0 if( $t->{twig_discard_spaces});
  $policy=1 if( $t->{twig_keep_spaces});
  $policy=1 if( $t->{twig_keep_spaces_in}
    && $t->{twig_keep_spaces_in}->{$gi});
  $policy=0 if( $t->{twig_discard_spaces_in}
    && $t->{twig_discard_spaces_in}->{$gi});
  return $policy;
}

sub _twig_entity
{ # warn " in _twig_entity...\n"; # DEBUG handler
  my( $p, $name, $val, $sysid, $pubid, $ndata, $param)= @_;
  my $t=$p->{twig};

  #{ no warnings; my $base= $p->base; warn "_twig_entity called: expand: '$t->{twig_expand_external_ents}';

```

```
base: '$base', name: '$name', val: '$val', sysid: '$sysid', pubid: '$pubid', ndata: '$ndata', param: '$param"\n";}
```

```
my $missing_entity=0;
```

```
if( $sysid)
{ if($ndata)
  { if( ! -f _based_filename(
$sysid, $p->base)) { $missing_entity= 1; }
  }
  else
  { if( $t->{twig_expand_external_ents})
    { $val= eval { _slurp_uri( $sysid, $p->base) };
    if( ! defined $val)
      { if( $t->{twig_extern_ent_nofail})
        { $missing_entity= 1; }
        else
          { _croak( "cannot load SYSTEM entity '$name' from '$sysid': $@", 3); }
        }
      }
    }
  }
}
```

```
my $ent=XML::Twig::Entity->new( $name, $val, $sysid, $pubid, $ndata, $param);
if( $missing_entity) { $t->{twig_missing_system_entities}->{$name}= $ent; }
```

```
my $entity_list= $t->entity_list;
if( $entity_list) { $entity_list->add( $ent); }
```

```
if( $parser_version > 2.27)
{ # this is really ugly, but with some versions of XML::Parser the value
  # of the entity is not properly returned by the default handler
  my $ent_decl= $ent->text;
  if( $t->{twig_keep_encoding})
    { if( defined $ent->{val} && ($ent_decl !~ /\["']/))
      { my $val= $ent->{val};
        $ent_decl .= $val =~ /\"/ ? qq{'$val' } : qq{"$val" };
      }
      # for my solaris box (perl 5.6.1, XML::Parser 2.31, expat?)
      $t->{twig_doctype}->{internal} =~ s{<!ENTITY\s+$name\s+}$ {substr( $ent_decl, 0, -1)}e;
    }
    $t->{twig_doctype}->{internal} .= $ent_decl
    unless( $t->{twig_doctype}->{internal} =~ m{<!ENTITY\s+$name\s+});
  }

return;
}
```

```
sub _twig_notation
```

```

{ my( $p, $name, $base, $sysid, $pubid ) = @_;
  my $t = $p->{twig};

  my $notation = XML::Twig::Notation->new( $name, $base, $sysid, $pubid );
  my $notation_list = $t->notation_list();
  if( $notation_list ) { $notation_list->add( $notation ); }

  # internal should get the recognized_string, but XML::Parser does not provide it
  # so we need to re-create it ( $notation->text) and stick it there.
  $t->{twig_doctype}->{internal}
.= $notation->text;

  return;
}

sub _twig_extern_ent
{ # warn " in _twig_extern_ent...I (" , $_[0]->original_string, ")\n"; # DEBUG handler
  my( $p, $base, $sysid, $pubid)= @_;
  my $t= $p->{twig};
  if( $t->{twig_no_expand})
  { my $sent_name= $t->{twig_keep_encoding} ? $p->original_string : $p->recognized_string;
    _twig_insert_ent( $t, $sent_name);
    return "";
  }
  my $sent_content= eval { $t->{twig_ext_ent_handler}->( $p, $base, $sysid) };
  if( ! defined $sent_content)
  {
    my $sent_name = $p->recognized_string;
    my $file = _based_filename( $sysid, $base);
    my $error_message= "cannot expand $sent_name - cannot load '$file'";
    if( $t->{twig_extern_ent_nofail}) { return "<!-- $error_message -->"; }
    else { _croak( $error_message); }
  }
  return $sent_content;
}

# I use this so I can change the $Carp::CarpLevel (which determines how many
# call frames to skip when reporting an error)
sub _croak
{ my( $message, $level)= @_;
  $Carp::CarpLevel= $level || 0;
  croak $message;
}

sub _twig_xmldecl
{ # warn " in _twig_xmldecl...\n"; # DEBUG handler

```

```

my $p= shift;
my $t=$p->{twig};
$t->{twig_xmldecl}||={};          # could have been set by set_output_encoding
$t->{twig_xmldecl}->{version}= shift;
$t->{twig_xmldecl}->{encoding}= shift;
$t->{twig_xmldecl}->{standalone}= shift;
return;
}

sub _twig_doctype
{ # warn " in _twig_doctype...\n"; # DEBUG handler
my( $p, $name, $sysid, $pub, $internal)= @_;
my $t=$p->{twig};
$t->{twig_doctype}||= {};          # create
$t->{twig_doctype}->{name}= $name;    # always there
$t->{twig_doctype}->{sysid}= $sysid;    #
$t->{twig_doctype}->{pub}= $pub;      #

# now let's try to cope with XML::Parser 2.28 and above
if( $parser_version > 2.27)
{ @saved_default_handler= $p->setHandlers(
Default    => \&_twig_store_internal_dtd,
Entity     => \&_twig_entity,
);
$p->setHandlers( DoctypeFin => \&_twig_stop_storing_internal_dtd);
$t->{twig_doctype}->{internal}="";
}
else
# for XML::Parser before 2.28
{ $internal||="";
  $internal=~ s/{^\s*[\{\}]};
  $internal=~ s/{\s*$};
  $t->{twig_doctype}->{internal}=$internal;
}

# now check if we want to get the DTD info
if( $t->{twig_read_external_dtd} && $sysid)
{ # let's build a fake document with an internal DTD
  if( $t->{DTDBase})
  { _use( 'File::Spec');
    $sysid=File::Spec->catfile($t->{DTDBase}, $sysid);
  }
  my $dtd= _slurp_uri( $sysid);
  # if the DTD includes an XML declaration, it needs to be moved before the DOCTYPE bit
  if( $dtd=~ s/{^\s*<?xml(\s+\w+\s*=\s*("[^"]*"|'['']*')*\s*\?>)}{ })
  { $dtd= "$1<!DOCTYPE $name [$dtd]><$name/>"; }
  else
  { $dtd= "<!DOCTYPE $name [$dtd]><$name/>"; }
}

```

```

    $t->save_global_state();      # save the globals (they will be reset by the following new)
    my $t_dtd= XML::Twig->new( load_DTD => 1, ParseParamEnt => 1, error_context => $t->{ErrorContext} ||
0);      # create a temp twig
    $t_dtd->parse( $dtd);        # parse it
    $t->{twig_dtd}= $t_dtd->{twig_dtd}; # grab the dtd info
    $t->{twig_dtd_is_external}=1;
    $t->entity_list->_add_list( $t_dtd->entity_list) if( $t_dtd->entity_list); # grab the entity info
    $t->notation_list->_add_list( $t_dtd->notation_list) if( $t_dtd->notation_list); # grab the notation info
    $t->restore_global_state();
}
return;
}

```

sub _twig_element

```
{ # warn " in _twig_element...\n"; # DEBUG handler
```

```

    my( $p, $name, $model)= @_;
    my $t=$p->{twig};
    $t->{twig_dtd}||=
{};      # may create the dtd
    $t->{twig_dtd}->{model}||= {};      # may create the model hash
    $t->{twig_dtd}->{elt_list}||= [];      # ordered list of elements
    push @{$t->{twig_dtd}->{elt_list}}, $name; # store the elt
    $t->{twig_dtd}->{model}->{$name}= $model; # store the model
    if( ($parser_version > 2.27) && ($t->{twig_doctype}->{internal} =~ m{(<|>)s*$} ) )
    { my $text= $XML::Twig::Elt::keep_encoding ? $p->original_string : $p->recognized_string;
      unless( $text)
      { # this version of XML::Parser does not return the text in the *_string method
        # we need to rebuild it
        $text= "<!ELEMENT $name $model>";
      }
      $t->{twig_doctype}->{internal} .= $text;
    }
    return;
}

```

sub _twig_attlist

```
{ # warn " in _twig_attlist...\n"; # DEBUG handler
```

```

    my( $p, $gi, $att, $type, $default, $fixed)= @_;
    #warn "in attlist: gi: '$gi', att: '$att', type: '$type', default: '$default',
fixed: '$fixed'\n";
    my $t=$p->{twig};
    $t->{twig_dtd}||= {};      # create dtd if need be
    $t->{twig_dtd}->{$gi}||= {};      # create elt if need be
    # $t->{twig_dtd}->{$gi}->{att}||= {};      # create att if need be
    if( ($parser_version > 2.27) && ($t->{twig_doctype}->{internal} =~ m{(<|>)s*$} ) )

```

```

{ my $text= $XML::Twig::Elt::keep_encoding ? $p->original_string : $p->recognized_string;
unless( $text)
{ # this version of XML::Parser does not return the text in the *_string method
# we need to rebuild it
my $att_decl="$att $type";
$att_decl .= " #FIXED" if( $fixed);
$att_decl .= " $default" if( defined $default);
# 2 cases: there is already an attlist on that element or not
if( $t->{twig_dtd}->{att}->{$gi})
{ # there is already an attlist, add to it
$t->{twig_doctype}->{internal}=~ s{(<!ATTLIST\s*$gi )(.*?)\n?>}
{ "$1$2\n" . ' ' x length( $1) . "$att_decl\n">}es;
}
else
{ # create the attlist
$t->{twig_doctype}->{internal}.= "<!ATTLIST $gi $att_decl>"
}
}
}
}
$t->{twig_dtd}->{att}->{$gi}->{$att}= {} ;
$t->{twig_dtd}->{att}->{$gi}->{$att}->{type}= $type;
$t->{twig_dtd}->{att}->{$gi}->{$att}->{default}= $default if( defined $default);
$t->{twig_dtd}->{att}->{$gi}->{$att}->{fixed}= $fixed;
return;
}

sub _twig_default
{ # warn " in _twig_default...\n"; # DEBUG handler

my( $p, $string)= @_ ;

my $t= $p->{twig};

# we need to process the data in 2 cases: entity, or spaces after the closing tag

# after the closing tag (no twig_current and root has been created)
if( ! $t->{twig_current} && $t->{twig_root} && $string=~ m{^\s+$}m) { $t->{twig_stored_spaces} .= $string;
}

# process only if we have an entity
if( $string=~ m{^&([^\s;]*)$})
{ # the entity has to be pure pcddata, or we have a problem
if( ($p->original_string=~ m{^<}) && ($p->original_string=~ m{>}))
{ # string is a tag, entity is in an attribute
$t->{twig_entities_in_attribute}=1 if( $t->{twig_do_not_escape_amp_in_atts});
}
else
{ my $ent;

```

```

        if( $t->{twig_keep_encoding})
        {
            _twig_char( $p, $string);
            $ent= substr( $string, 1, -1);
        }
        else
        {
            $ent= _twig_insert_ent( $t, $string);
        }

        return $ent;
    }
}

sub _twig_insert_ent
{
    my( $t, $string)=@_;

    my $twig_current= $t->{twig_current};

    my $ent= $t->{twig_elt_class}->new( $ENT);
    $ent->set_ent( $string);

    _add_or_discard_stored_spaces( $t);

    if( $t->{twig_in_pcddata})
    {
        # create the node as a sibling of the #PCDATA

        $ent->set_prev_sibling(
$twig_current);
        $twig_current->set_next_sibling( $ent);
        my $parent= $twig_current->_parent;
        $ent->set_parent( $parent);
        $parent->set_last_child( $ent);
        # the twig_current is now the parent
        $twig_current->del_twig_current;
        $t->{twig_current}= $parent;
        # we left pcddata
        $t->{twig_in_pcddata}=0;
    }
    else
    {
        # create the node as a child of the current element
        $ent->set_parent( $twig_current);
        if( my $prev_sibling= $twig_current->_last_child)
        {
            $ent->set_prev_sibling( $prev_sibling);
            $prev_sibling->set_next_sibling( $ent);
        }
        else
        {
            if( $twig_current) { $twig_current->set_first_child( $ent); } }
    }
}

```

```

    if( $twig_current) { $twig_current->set_last_child( $ent); }
}

# meant to trigger entity handler, does not seem to be activated at this time
# if( my $handler= $t->{twig_handlers}->{gi}->{$ENT})
# { local $_= $ent; $handler->(
$t, $ent); }

return $ent;
}

sub parser
{ return $_[0]->{twig_parser}; }

# returns the declaration text (or a default one)
sub xmldecl
{ my $t= shift;
  return " unless( $t->{twig_xmldecl} || $t->{output_encoding});
  my $decl_string;
  my $decl= $t->{twig_xmldecl};
  if( $decl)
  { my $version= $decl->{version};
    $decl_string= q{<?xml};
    $decl_string .= qq{ version="$version"};

    # encoding can either have been set (in $decl->{output_encoding})
    # or come from the document (in $decl->{encoding})
    if( $t->{output_encoding})
    { my $encoding= $t->{output_encoding};
      $decl_string .= qq{ encoding="$encoding"};
    }
    elsif( $decl->{encoding})
    { my $encoding= $decl->{encoding};
      $decl_string .= qq{ encoding="$encoding"};
    }

    if( defined( $decl->{standalone}))
    { $decl_string .= q{ standalone=""};
      $decl_string .= $decl->{standalone} ? "yes"
: "no";
      $decl_string .= q{ };
    }

    $decl_string .= ">\n";
  }
  else
  { my $encoding= $t->{output_encoding};
    $decl_string= qq{<?xml version="1.0" encoding="$encoding"?>};
  }
}

```



```

    }

    my $output_filter= XML::Twig::Elt::output_filter();
    return $output_filter ? $output_filter->( $decl_string) : $decl_string;
}

sub set_doctype
{ my( $t, $name, $system, $public, $internal)= @_ ;
  $t->{twig_doctype}= {} unless defined $t->{twig_doctype};
  my $doctype= $t->{twig_doctype};
  $doctype->{name}    = $name    if( defined $name);
  $doctype->{sysid}   = $system   if( defined $system);
  $doctype->{pub}     = $public   if( defined $public);
  $doctype->{internal}= $internal if( defined $internal);
}

sub doctype_name
{ my $t= shift;
  my $doctype= $t->{twig_doctype} or return "";
  return $doctype->{name} || "";
}

sub system_id
{ my $t= shift;
  my $doctype= $t->{twig_doctype} or return "";
  return $doctype->{sysid} || "";
}

sub public_id
{ my $t= shift;
  my $doctype= $t->{twig_doctype} or return "";
  return $doctype->{pub} || "";
}

sub internal_subset
{ my $t= shift;
  my $doctype= $t->{twig_doctype} or return "";
  return $doctype->{internal} || "";
}

# return the dtd object
sub dtd
{ my $t= shift;
  return $t->{twig_dtd};
}

# return an element model, or the list of element models
sub model

```

```

{ my $t= shift;
  my $elt= shift;
  return $t->dtd->{model}->{$elt} if( $elt);
  return (sort keys %{$t->dtd->{model}});
}

```

```

# return the entity_list object
sub entity_list
{ my $t= shift;
  return $t->{twig_entity_list};
}

```

```

# return the list of entity names
sub entity_names
{ my $t= shift;
  return $t->entity_list->entity_names;
}

```

```

# return the entity object
sub entity
{ my $t= shift;
  my $entity_name= shift;
  return $t->entity_list->ent( $entity_name);
}

```

```

# return the notation_list object
sub notation_list
{ my $t= shift;
  return $t->{twig_notation_list};
}

```

```

# return the list of notation names
sub notation_names
{ my $t= shift;
  return $t->notation_list->notation_names;
}

```

```

# return the notation object
sub notation
{ my $t= shift;
  my $notation_name= shift;
  return $t->notation_list->notation( $notation_name);
}

```

```

sub print_prolog
{ my $t= shift;
  my $fh= _is_fh($_[0]) ? shift : $t->{twig_output_fh} || select() || \*STDOUT;
  ## no critic (TestingAndDebugging::ProhibitNoStrict);
  no strict 'refs';
  print {$fh} $t->prolog( @_);
}

sub prolog
{ my $t= shift;
  if( $t->{no_prolog}){ return ""; }

  return $t->{no_prolog} ? "
    : defined $t->{no_dtd_output} ? $t->xmldecl
    : $t->xmldecl . $t->doctype( @_);
}

sub doctype
{ my $t= shift;
  my %args= _normalize_args( @_);
  my $update_dtd = $args{UpdateDTD} || "";
  my $doctype_text="";

  my $doctype= $t->{twig_doctype};

  if( $doctype)
  { $doctype_text .= qq{<!DOCTYPE $doctype->{name}} if( $doctype->{name});
    $doctype_text .= qq{ PUBLIC "$doctype->{pub}" } if( $doctype->{pub});
    $doctype_text .= qq{ SYSTEM } if( $doctype->{sysid} && !$doctype->{pub});
    $doctype_text .= qq{ "$doctype->{sysid}" } if( $doctype->{sysid});
  }

  if( $update_dtd)
  { if( $doctype)
    { my $internal=$doctype->{internal};
      # awful hack, but at least it works a little better than what was there before
      if( $internal)
      { # remove entity and notation declarations (they will be re-generated from the updated entity list)
        $internal=~ s{<!\s* ENTITY \s+ $REG_TAG_NAME \s+ ( ("^"*)|(^)* ) \s* | SYSTEM [^>]*
>\s* }{}xg;
        $internal=~ s{<!\s* NOTATION .*? >\s* }{}xg;
        $internal=~ s{\n}{};
      }
      $internal .= $t->entity_list->text ||" if( $t->entity_list);
      $internal .= $t->notation_list->text ||" if( $t->notation_list);
      if( $internal) { $doctype_text .= "\n$internal]>\n"; }
    }
    elsif( !$t->{twig_dtd} && ( keys %{ $t->entity_list } || keys %{ $t->notation_list } ))

```

```

    { $doctype_text .= "<!DOCTYPE " . $t->root->gi . " [\n" . $t->entity_list->text . $t->notation_list->text .
"\n]>";}
    else
    { $doctype_text= $t->{twig_dtd};
      $doctype_text .= $t->dtd_text;
    }
  }
}
elseif( $doctype)
{ if( my $internal= $doctype->{internal})
  { # add opening and closing brackets if not already there
    # plus some spaces and newlines for a nice formatting
    # I test it here because I can't remember which version of
    # XML::Parser need it or not, nor guess which one will in the
    # future, so this about the best I can do
    $internal=~ s/{^\s*(\[\s*)?}{ [\n]};
    $internal=~ s/{\s*(\]\s*(>\s*)?)?\s*$}{\n]>\n};

    # XML::Parser does not include the NOTATION declarations in the DTD
    # at least in the current version. So put them back
    #if( $t->notation_list && $internal !~ m{<\s*NOTATION})
    # { $internal=~ s/{(\n]>\n)$}{ "\n" . $t->notation_list->text . $1}es; }

    $doctype_text .= $internal;
  }
}

if( $doctype_text)
{
  # terrible hack, as I can't figure out in which case the darn prolog
  # should get an extra > (depends on XML::Parser and expat versions)
  $doctype_text=~ s/(>\s*)*$>/>\n/; # if($doctype_text);

  my $output_filter= XML::Twig::Elt::output_filter();
  return $output_filter ? $output_filter->( $doctype_text) : $doctype_text;
}
else
{ return $doctype_text; }
}

sub _leading_cpi
{ my $t= shift;
  my $leading_cpi= $t->{leading_cpi} || return "";
  return $leading_cpi->xml_string;
}

sub _trailing_cpi
{ my $t=

```

```

shift;
my $trailing_cpi= $t->{trailing_cpi} || return "";
return $trailing_cpi->xml_string;
}

sub _trailing_cpi_text
{ my $t= shift;
  return $t->{trailing_cpi_text} || "";
}

sub print_to_file
{ my( $t, $filename)= (shift, shift);
  my $out_fh;
  open( $out_fh, ">$filename") or _croak( "cannot create file $filename: $!"); # < perl 5.8
  my $mode= $t->{twig_keep_encoding} && !_use_perlio() ? '>' : '>:utf8'; # >= perl 5.8
  open( $out_fh, $mode, $filename) or _croak( "cannot create file $filename: $!"); # >= perl 5.8
  $t->print( $out_fh, @_);
  close $out_fh;
  return $t;
}

# probably only works on *nix (at least the chmod bit)
# first print to a temporary file, then rename that file to the desired file name, then change permissions
# to the original file permissions (or to the current umask)
sub safe_print_to_file
{ my( $t, $filename)= (shift, shift);
  my $perm= -f $filename ? (stat $filename)[2] & 0777 : ~umask();
  ;
  XML::Twig::_use( 'File::Temp' ) || croak "need File::Temp to use safe_print_to_file\n";
  my $tmpdir= dirname( $filename);
  my( $fh, $tmpfilename) = File::Temp::tempfile( DIR => $tmpdir);
  $t->print_to_file( $tmpfilename, @_);
  rename( $tmpfilename, $filename) or unlink $tmpfilename && _croak( "cannot move temporary file to $filename: $!");
  chmod $perm, $filename;
  return $t;
}

sub print
{ my $t= shift;
  my $fh= _is_fh( $_[0]) ? shift : undef;
  my %args= _normalize_args( @_);

  my $old_select = defined $fh ? select $fh : undef;
  my $old_pretty = defined ($args{PrettyPrint}) ? $t->set_pretty_print( $args{PrettyPrint}) : undef;
  my $old_empty_tag = defined ($args{EmptyTags}) ? $t->set_empty_tag_style( $args{EmptyTags}) : undef;

```

```

# if( !$t->{encoding} || lc( $t->{encoding}) eq 'utf-8') { my $out= $fh || \*STDOUT; binmode $out, 'utf8'; }

if( $perl_version > 5.006 &&
! $t->{twig_keep_encoding} && _use_perlio() ) { binmode( $fh || \*STDOUT, "utf8" ); }

print $t->prolog( %args) . $t->_leading_cpi( %args);
$t->{twig_root}->print;
print $t->_trailing_cpi      # trailing comments and pi's (elements, in 'process' mode)
    . $t->_trailing_cpi_text # trailing comments and pi's (in 'keep' mode)
    . ( ($t->{twig_keep_spaces}||"") && ($t->{trailing_spaces} || ""))
    ;

$t->set_pretty_print( $old_pretty)    if( defined $old_pretty);
$t->set_empty_tag_style( $old_empty_tag) if( defined $old_empty_tag);
if( $fh) { select $old_select; }

return $t;
}

sub flush
{ my $t= shift;

    $t->_trigger_tdh if $t->{twig_tdh};

    return if( $t->{twig_completely_flushed});

    my $fh= _is_fh( $_[0]) ? shift : undef;
    my $old_select= defined $fh ? select $fh : undef;
    my $up_to= ref $_[0] ? shift : undef;
    my %args= _normalize_args( @_);

    my $old_pretty;
    if( defined $args{PrettyPrint})
    { $old_pretty= $t->set_pretty_print( $args{PrettyPrint});
      delete $args{PrettyPrint};
    }

    my $old_empty_tag_style;
    if( $args{EmptyTags})
    { $old_empty_tag_style= $t->set_empty_tag_style( $args{EmptyTags});
      delete $args{EmptyTags};
    }

    # the "real" last element processed, as _twig_end has closed it
    my $last_elt;

```

```

my $flush_trailing_data=0;
if( $sup_to)
{ $last_elt= $sup_to; }
elsif( $t->{twig_current})
{ $last_elt= $t->{twig_current}->_last_child; }
else
{ $last_elt= $t->{twig_root};
$flush_trailing_data=1;
$t->{twig_completely_flushed}=1;
}

# flush the DTD unless it has ready flushed (ie root has been flushed)
my $elt= $t->{twig_root};
unless( $elt->_flushed)
{ # store flush info so we can auto-flush later
if( $t->{twig_autoflush})
{ $t->{twig_autoflush_data}={};
$t->{twig_autoflush_data}->{fh} = $fh if( $fh);

$t->{twig_autoflush_data}->{args} = \@_ if( @_);
}
$t->print_prolog( %args);
print $t->_leading_cpi;
}

while( $elt)
{ my $next_elt;
if( $last_elt && $last_elt->in( $elt))
{
unless( $elt->_flushed)
{ # just output the front tag
print $elt->start_tag();
$elt->_set_flushed;
}
$next_elt= $elt->_first_child;
}
else
{ # an element before the last one or the last one,
$next_elt= $elt->_next_sibling;
$elt->_flush();
$elt->delete;
last if( $last_elt && ($elt == $last_elt));
}
$elt= $next_elt;
}

if( $flush_trailing_data)
{ print $t->_trailing_cpi      # trailing comments and pi's (elements, in 'process' mode)

```

```

        , $t->_trailing_cpi_text # trailing comments and pi's (in 'keep' mode)
    }

    select $old_select if( defined
$old_select);
    $t->set_pretty_print( $old_pretty) if( defined $old_pretty);
    $t->set_empty_tag_style( $old_empty_tag_style) if( defined $old_empty_tag_style);

    if( my $ids= $t->{twig_id_list})
    { while( my ($id, $elt)= each %$ids)
        { if( ! defined $elt)
            { delete $t->{twig_id_list}->{$id} }
        }
    }

    return $t;
}

# flushes up to an element
# this method just reorders the arguments and calls flush
sub flush_up_to
{ my $t= shift;
  my $up_to= shift;
  if( _is_fh( $_[0]))
  { my $fh= shift;
    $t->flush( $fh, $up_to, @_);
  }
  else
  { $t->flush( $up_to, @_); }

  return $t;
}

# same as print except the entire document text is returned as a string
sub sprint
{ my $t= shift;
  my %args= _normalize_args( @_);

  my $old_pretty;
  if( defined $args{PrettyPrint})
  { $old_pretty= $t->set_pretty_print( $args{PrettyPrint});
    delete $args{PrettyPrint};
  }

  my $old_empty_tag_style;

```



```

if( defined $args{EmptyTags})
{ $old_empty_tag_style= $t->set_empty_tag_style( $args{EmptyTags});
  delete $args{EmptyTags};
}

my $string= $t->prolog( %args)    # xml declaration and doctype
    . $t->_leading_cpi( %args) # leading comments and pi's in 'process' mode
    . ( ($t->{twig_root} && $t->{twig_root}->sprint) || "")
    . $t->_trailing_cpi    # trailing comments and pi's (elements, in 'process' mode)
    . $t->_trailing_cpi_text # trailing comments and pi's (in 'keep' mode)
    ;
if( $t->{twig_keep_spaces} && $t->{trailing_spaces}) { $string .= $t->{trailing_spaces}; }

$t->set_pretty_print( $old_pretty) if( defined $old_pretty);
$t->set_empty_tag_style( $old_empty_tag_style) if( defined $old_empty_tag_style);

return $string;
}

```

```

# this method discards useless elements in a tree
# it does the same thing as a flush except it does
not print it
# the second argument is an element, the last purged element
# (this argument is usually set through the purge_up_to method)
sub purge
{ my $t= shift;
  my $up_to= shift;

```

```

$t->_trigger_tdh if $t->{twig_tdh};

```

```

# the "real" last element processed, as _twig_end has closed it
my $last_elt;
if( $up_to)
{ $last_elt= $up_to; }
elsif( $t->{twig_current})
{ $last_elt= $t->{twig_current}->_last_child; }
else
{ $last_elt= $t->{twig_root}; }

```

```

my $elt= $t->{twig_root};

```

```

while( $elt)
{ my $next_elt;
  if( $last_elt && $last_elt->in( $elt))
  { $elt->_set_flushed;
    $next_elt= $elt->_first_child;
  }
}

```

```

else
{ # an element before the last one or the last one,
  $next_elt= $elt->_next_sibling;
  $elt->delete;
  last if( $last_elt && ($elt == $last_elt) );
}
$elt= $next_elt;
}

if( my $ids= $t->{twig_id_list})
{
while( my ($id, $elt)= each %$ids) { if( ! defined $elt) { delete $t->{twig_id_list}->{$id} } } }

return $t;
}

# flushes up to an element. This method just calls purge
sub purge_up_to
{ my $t= shift;
  return $t->purge( @_);
}

sub root
{ return $_[0]->{twig_root}; }

sub normalize
{ return $_[0]->root->normalize; }

# create accessor methods on attribute names
{ my %accessor; # memorize accessor names so re-creating them won't trigger an error
sub att_accessors
{
  my $twig_or_class= shift;
  my $elt_class= ref $twig_or_class ? $twig_or_class->{twig_elt_class}
    : 'XML::Twig::Elt'
    ;
  ## no critic (TestingAndDebugging::ProhibitNoStrict);
  no strict 'refs';
  foreach my $att (@_)
  { _croak( "attempt to redefine existing method $att using att_accessors")
    if( $elt_class->can( $att) && !$accessor{$att});

    if( !$accessor{$att})
    { *{"$elt_class::$att"}=
      sub
      :lvalue
      # > perl 5.5
      { my $elt= shift;

```

```

        if( @_ ) { $elt->{att}->{$att}= $_[0]; }
        $elt->{att}->{$att};
    };
    $accessor{$att}=1;
}
}
return $twig_or_class;
}
}

{ my %accessor; # memorize accessor names so re-creating them won't trigger an error
sub elt_accessors
{
    my $twig_or_class= shift;
    my $elt_class= ref $twig_or_class ? $twig_or_class->{twig_elt_class}
        : 'XML::Twig::Elt'
        ;

    # if arg is a hash ref, it's exp => name, otherwise it's a list of tags
    my %exp_to_alias= ref( $_[0] ) && isa( $_[0], 'HASH' ) ? %{ $_[0] }
        : map { $_ => $_ } @_;

    ## no critic (TestingAndDebugging::ProhibitNoStrict);
    no strict 'refs';
    while( my( $alias, $exp )= each %exp_to_alias
    )
    { if( $elt_class->can( $alias ) && !$accessor{$alias} )
        { _croak( "attempt to redefine existing method $alias using elt_accessors" ); }

        if( !$accessor{$alias} )
        { *{"$elt_class::$alias"}=
            sub
            { my $elt= shift;
                return wantarray ? $elt->children( $exp ) : $elt->first_child( $exp );
            };
            $accessor{$alias}=1;
        }
    }
    return $twig_or_class;
}
}

{ my %accessor; # memorize accessor names so re-creating them won't trigger an error
sub field_accessors
{
    my $twig_or_class= shift;
    my $elt_class= ref $twig_or_class ? $twig_or_class->{twig_elt_class}
        : 'XML::Twig::Elt'
        ;

```

```

my %exp_to_alias= ref( $_[0]) && isa( $_[0], 'HASH') ? %{$_[0]}
               : map { $_ => $_ } @_;

## no critic
(TestingAndDebugging::ProhibitNoStrict);
no strict 'refs';
while( my( $alias, $exp)= each %exp_to_alias )
{ if( $elt_class->can( $alias) && !$accessor{$alias})
  { _croak( "attempt to redefine existing method $exp using field_accessors"); }
  if( !$accessor{$alias})
  { *{"$elt_class\::$alias"}=
    sub
    { my $elt= shift;
      $elt->field( $exp)
    };
    $accessor{$alias}=1;
  }
}
return $twig_or_class;
}
}

sub first_elt
{ my( $t, $cond)= @_;
  my $root= $t->root || return undef;
  return $root if( $root->passes( $cond));
  return $root->next_elt( $cond);
}

sub last_elt
{ my( $t, $cond)=
  @_;
  my $root= $t->root || return undef;
  return $root->last_descendant( $cond);
}

sub next_n_elt
{ my( $t, $offset, $cond)= @_;
  $offset -- if( $t->root->matches( $cond) );
  return $t->root->next_n_elt( $offset, $cond);
}

sub get_xpath
{ my $twig= shift;
  if( isa( $_[0], 'ARRAY'))
  { my $elt_array= shift;
    return _unique_elts( map { $_->get_xpath( @_ ) } @$elt_array);
  }
}

```

```

else
{ return $twig->root->get_xpath( @_); }
}

# get a list of elts and return a sorted list of unique elts
sub _unique_elts
{ my @sorted= sort { $a->cmp( $b) } @_;
  my @unique;
  while( my $current= shift @sorted)
    { push @unique, $current unless( @unique && ($unique[-1] == $current)); }
  return @unique;
}

sub findvalue
{ my $twig= shift;
  if( isa( $_[0], 'ARRAY'))
    { my $elt_array= shift;
      return join( ", map { $_->findvalue( @_) } @$elt_array);
    }
  else
    { return $twig->root->findvalue( @_); }
}

sub findvalues
{ my $twig= shift;
  if( isa( $_[0], 'ARRAY'))
    { my $elt_array= shift;
      return map { $_->findvalues( @_) } @$elt_array;
    }
  else
    { return $twig->root->findvalues( @_); }
}

sub set_id_seed
{ my $t= shift;
  XML::Twig::Elt->set_id_seed( @_);
  return $t;
}

# return an array ref to an index, or undef
sub index
{ my( $twig, $name, $index)= @_;
  return defined( $index) ? $twig->{_twig_index}->{$name}->[$index] : $twig->{_twig_index}->{$name};
}

# return a list with just the root
# if a condition is given then return an empty list unless the root matches
sub children

```

```

{ my( $t, $cond)= @_;
  my $root= $t->root;
  unless( $cond && !($root->passes( $cond)) )
    { return ($root); }
  else
    { return (); }
}

sub _children { return ($_[0]->root); }

# weird, but here for completude
# used to solve (non-sensical) /doc[1] XPath queries
sub child
{ my $t= shift;
  my $nb= shift;
  return ($t->children( @_))[$nb];
}

sub
descendants
{ my( $t, $cond)= @_;
  my $root= $t->root;
  if( $root->passes( $cond) )
    { return ($root, $root->descendants( $cond)); }
  else
    { return ( $root->descendants( $cond)); }
}

sub simplify { my $t= shift; $t->root->simplify( @_); }
sub subs_text { my $t= shift; $t->root->subs_text( @_); }
sub trim     { my $t= shift; $t->root->trim( @_);    }

sub set_keep_encoding
{ my( $t, $keep)= @_;
  $t->{twig_keep_encoding}= $keep;
  $t->{NoExpand}= $keep;
  return XML::Twig::Elt::set_keep_encoding( $keep);
}

sub set_expand_external_entities
{ return XML::Twig::Elt::set_expand_external_entities( @_); }

sub escape_gt
{ my $t= shift; $t->{twig_escape_gt}= 1; return XML::Twig::Elt::escape_gt( @_); }

sub do_not_escape_gt
{ my $t= shift; $t->{twig_escape_gt}= 0; return XML::Twig::Elt::do_not_escape_gt( @_); }

```

```

sub elt_id
{ return $_[0]->{twig_id_list}->{$_[1]}; }

# change it in ALL twigs at the moment
sub change_gi
{ my( $twig, $old_gi,
$new_gi)= @_;
my $index;
return unless($index= $XML::Twig::gi2index{$old_gi});
$XML::Twig::index2gi[$index]= $new_gi;
delete $XML::Twig::gi2index{$old_gi};
$XML::Twig::gi2index{$new_gi}= $index;
return $twig;
}

# builds the DTD from the stored (possibly updated) data
sub dtd_text
{ my $t= shift;
my $dtd= $t->{twig_dtd};
my $doctype= $t->{twig_doctype} or return "";
my $string= "<!DOCTYPE ".$doctype->{name};

$string .= " [\n";

foreach my $gi (@{$dtd->{elt_list}})
{ $string.= "<ELEMENT $gi ".$dtd->{model}->{$gi}. ">\n" ;
if( $dtd->{att}->{$gi})
{ my $attlist= $dtd->{att}->{$gi};
$string.= "<!ATTLIST $gi\n";
foreach my $att ( sort keys %{$attlist})
{
if( $attlist->{$att}->{fixed})
{ $string.= " $att $attlist->{$att}->{type} #FIXED $attlist->{$att}->{default}"; }
else
{ $string.= " $att $attlist->{$att}->{type}
$attlist->{$att}->{default}"; }
$string.= "\n";
}
$string.= ">\n";
}
}

$string.= $t->entity_list->text if( $t->entity_list);
$string.= "\n]>\n";
return $string;
}

```

```

# prints the DTD from the stored (possibly updated) data
sub dtd_print
{ my $t= shift;
  my $fh= _is_fh( $_[0]) ? shift : undef;
  if( $fh) { print $fh $t->dtd_text; }
  else { print $t->dtd_text; }
  return $t;
}

# build the subs that call directly expat
BEGIN
{ my @expat_methods= qw( depth in_element within_element context
                        current_line current_column current_byte
                        recognized_string original_string
                        xpcroak xpcarp
                        base current_element element_index
                        xml_escape
                        position_in_context);
  foreach my $method (@expat_methods)
  {
    ## no critic
    (TestingAndDebugging::ProhibitNoStrict);
    no strict 'refs';
    *{$method}= sub { my $t= shift;
                      _croak( "calling $method after parsing is finished") unless( $t->{twig_parsing});
                      return $t->{twig_parser}->$method(@_);
                      };
  }
}

sub path
{ my( $t, $gi)= @_;
  if( $t->{twig_map_xmlns})
  { return "/" . join( "/", map { $t->_replace_prefix( $_)} ($t->{twig_parser}->context, $gi)); }
  else
  { return "/" . join( "/", ($t->{twig_parser}->context, $gi)); }
}

sub finish
{ my $t= shift;
  return $t->{twig_parser}->finish;
}

# just finish the parse by printing the rest of the document
sub finish_print
{ my( $t, $fh)= @_;
  my $old_fh;
  unless( defined $fh)

```



```

    { $t->_set_fh_to_twig_output_fh(); }
elseif( defined $fh)
    { $old_fh= select $fh;
      $t->{twig_original_selected_fh}= $old_fh if( $old_fh);
    }

my $p=$t->{twig_parser};
if( $t->{twig_keep_encoding})
    { $p->setHandlers( %twig_handlers_finish_print); }
else
    { $p->setHandlers( %twig_handlers_finish_print_original); }
return $t;
}

sub set_remove_cdata { return XML::Twig::Elt::set_remove_cdata( @_); }

sub output_filter      { return XML::Twig::Elt::output_filter( @_);      }
sub set_output_filter  { return XML::Twig::Elt::set_output_filter( @_);  }

sub output_text_filter { return XML::Twig::Elt::output_text_filter( @_); }
sub set_output_text_filter { return XML::Twig::Elt::set_output_text_filter( @_); }

sub set_input_filter
{ my( $t, $input_filter)= @_;
  my $old_filter= $t->{twig_input_filter};
  if( !$input_filter || isa( $input_filter, 'CODE') )
    { $t->{twig_input_filter}= $input_filter; }
  elsif( $input_filter eq 'latin1')
    { $t->{twig_input_filter}= latin1(); }
  elsif( $filter{$input_filter})
    { $t->{twig_input_filter}= $filter{$input_filter}; }
  else
    { _croak(
      "invalid input filter: $input_filter"); }

  return $old_filter;
}

sub set_empty_tag_style
{ return XML::Twig::Elt::set_empty_tag_style( @_); }

sub set_pretty_print
{ return XML::Twig::Elt::set_pretty_print( @_); }

sub set_quote
{ return XML::Twig::Elt::set_quote( @_); }

sub set_indent

```

```

{ return XML::Twig::Elt::set_indent( @_ ); }

sub set_keep_atts_order
{ shift; return XML::Twig::Elt::set_keep_atts_order( @_ ); }

sub keep_atts_order
{ return XML::Twig::Elt::keep_atts_order( @_ ); }

sub set_do_not_escape_amp_in_atts
{ return XML::Twig::Elt::set_do_not_escape_amp_in_atts( @_ ); }

# save and restore package globals (the ones in XML::Twig::Elt)
# should probably return the XML::Twig object itself, but instead
# returns the state (as a hashref) for backward compatibility
sub save_global_state
{ my $t= shift;
  return $t->{twig_saved_state}= XML::Twig::Elt::global_state();
}

sub restore_global_state
{ my $t= shift;
  XML::Twig::Elt::set_global_state(
    $t->{twig_saved_state});
}

sub global_state
{ return XML::Twig::Elt::global_state(); }

sub set_global_state
{ return XML::Twig::Elt::set_global_state( $_[1] ); }

sub dispose
{ my $t= shift;
  $t->DESTROY;
  return;
}

sub DESTROY
{ my $t= shift;
  if( $t->{twig_root} && isa( $t->{twig_root}, 'XML::Twig::Elt') )
  { $t->{twig_root}->delete }

  # added to break circular references
  undef $t->{twig};
  undef $t->{twig_root}->{twig} if( $t->{twig_root});
  undef $t->{twig_parser};

  undef %$t;# prevents memory leaks (especially when using mod_perl)

```

```

undef $t;
}

# return true if perl was compiled using perlio
# if perl is not available return true, these days perlio should be used
sub _use_perlio
{ my $perl= _this_perl();
  return $perl ? grep /useperlio=define/, ` $perl -V` : 1;
}

# returns the parth to the perl executable (if available)
sub _this_perl
{ # straight from perlvar
  my $secure_perl_path= $Config{perlpath};
  if ($^O ne 'VMS')
  { $secure_perl_path .= $Config{_exe} unless $secure_perl_path =~ m/$Config{_exe}$/i; }
  if( ! -f $secure_perl_path) { $secure_perl_path= ""; } # when perl is not available (PDK)
  return $secure_perl_path;
}

#
# non standard handlers
#

# kludge: expat 1.95.2 calls both Default AND Doctype handlers
# so if the default handler finds '<!DOCTYPE' then it must
# unset itself (_twig_print_doctype will reset it)
sub _twig_print_check_doctype
{ # warn " in _twig_print_check_doctype...\n"; # DEBUG handler

  my $p= shift;
  my $string= $p->recognized_string();
  if( $string eq '<!DOCTYPE')
  {
    $p->setHandlers( Default => undef);
    $p->setHandlers( Entity => undef);
    $expat_1_95_2=1;
  }
  else
  { print $string; }

  return;
}

sub _twig_print
{ # warn " in _twig_print...\n"; # DEBUG handler
  my $p= shift;

```

```

if( $expat_1_95_2 && ($p->recognized_string eq '[') &&
!$p->{twig}->{expat_1_95_2_seen_bracket})
{ # otherwise the opening square bracket of the doctype gets printed twice
  $p->{twig}->{expat_1_95_2_seen_bracket}=1;
}
else
{ if( $p->{twig}->{twig_right_after_root})
  { my $s= $p->recognized_string(); print $s if $s=~ m{\S}; }
  else
  { print $p->recognized_string(); }
}
return;
}
# recognized_string does not seem to work for entities, go figure!
# so this handler is used to print them anyway
sub _twig_print_entity
{ # warn " in _twig_print_entity...\n"; # DEBUG handler
  my $p= shift;
  XML::Twig::Entity->new( @_)->print;
}

# kludge: expat 1.95.2 calls both Default AND Doctype handlers
# so if the default handler finds '<!DOCTYPE' then it must
# unset itself (_twig_print_doctype will reset it)
sub _twig_print_original_check_doctype
{ # warn " in _twig_print_original_check_doctype...\n"; # DEBUG handler

  my $p= shift;
  my $string= $p->original_string();
  if( $string eq '<!DOCTYPE')
  { $p->setHandlers( Default => undef);
    $p->setHandlers( Entity => undef);
    $expat_1_95_2=1;
  }
  else
  { print $string; }

  return;
}

sub _twig_print_original
{ # warn " in _twig_print_original...\n"; # DEBUG handler
  my $p= shift;
  print $p->original_string();
  return;
}

```

```

sub _twig_print_original_doctype
{ # warn " in _twig_print_original_doctype...\n"; # DEBUG handler

my( $p, $name, $sysid, $pubid, $internal)= @_;
if( $name)
{ # with recent versions of XML::Parser original_string does not work,
  # hence we need to rebuild the doctype declaration
  my $doctype="";
  $doctype .= qq{<!DOCTYPE $name}   if( $name);
  $doctype .= qq{ PUBLIC "$pubid"}  if( $pubid);
  $doctype .= qq{ SYSTEM}           if( $sysid && !$pubid);
  $doctype .= qq{ "$sysid"}         if( $sysid);
  $doctype .= '[' if(
$internal && !$expat_1_95_2) ;
  $doctype .= qq{>} unless( $internal || $expat_1_95_2);
  $p->{twig}->{twig_doctype}->{has_internal}=$internal;
  print $doctype;
}
$p->setHandlers( Default => \&_twig_print_original);
return;
}

```

```

sub _twig_print_doctype
{ # warn " in _twig_print_doctype...\n"; # DEBUG handler
my( $p, $name, $sysid, $pubid, $internal)= @_;
if( $name)
{ # with recent versions of XML::Parser original_string does not work,
  # hence we need to rebuild the doctype declaration
  my $doctype="";
  $doctype .= qq{<!DOCTYPE $name}   if( $name);
  $doctype .= qq{ PUBLIC "$pubid"}  if( $pubid);
  $doctype .= qq{ SYSTEM}           if( $sysid && !$pubid);
  $doctype .= qq{ "$sysid"}         if( $sysid);
  $doctype .= '[' if( $internal) ;
  $doctype .= qq{>} unless( $internal || $expat_1_95_2);
  $p->{twig}->{twig_doctype}->{has_internal}=$internal;
  print
$doctype;
}
$p->setHandlers( Default => \&_twig_print);
return;
}

```

```

sub _twig_print_original_default
{ # warn " in _twig_print_original_default...\n"; # DEBUG handler
my $p= shift;
print $p->original_string();
}

```

```

    return;
}

# account for the case where the element is empty
sub _twig_print_end_original
{ # warn " in _twig_print_end_original...\n"; # DEBUG handler
    my $p= shift;
    print $p->original_string();
    return;
}

sub _twig_start_check_roots
{ # warn " in _twig_start_check_roots...\n"; # DEBUG handler
    my $p= shift;
    my $gi= shift;

    my $t= $p->{twig};

    my $fh= $t->{twig_output_fh} || select() || \*STDOUT;

    my $ns_decl;
    unless( $p->depth == 0)
    { if( $t->{twig_map_xmlns}) { $ns_decl= _replace_ns( $t, \$gi, \@_); }
    }

    my $context= { $ST_TAG => $gi, @_};
    $context->{$ST_NS}= $ns_decl if $ns_decl;
    push @{$t->{_twig_context_stack}}, $context;
    my %att= @_;

    if( _handler(
    $t, $t->{twig_roots}, $gi))
    { $p->setHandlers( %twig_handlers); # restore regular handlers
      $t->{twig_root_depth}= $p->depth;
      pop @{$t->{_twig_context_stack}}; # will be pushed back in _twig_start
      _twig_start( $p, $gi, @_);
      return;
    }

    # $tag will always be true if it needs to be printed (the tag string is never empty)
    my $tag= $t->{twig_default_print} ? $t->{twig_keep_encoding} ? $p->original_string
        : $p->recognized_string
        : "";

    if( $p->depth == 0)
    {
        ## no critic (TestingAndDebugging::ProhibitNoStrict);
        no strict 'refs';
    }

```

```

    print {$fh} $tag if( $tag);
    pop @{$t->{_twig_context_stack}}; # will be pushed back in _twig_start
    _twig_start( $p, $gi, @_);
    $t->root->_set_flushed; # or the root start tag gets output the first time we flush
}
elseif( $t->{twig_starttag_handlers})
{ # look for start tag handlers

    my @handlers= _handler( $t, $t->{twig_starttag_handlers}, $gi);
    my $last_handler_res;
    foreach my $handler ( @handlers)
    { $last_handler_res= $handler->($t, $gi, %att);
      last unless $last_handler_res;
    }
    ## no critic (TestingAndDebugging::ProhibitNoStrict);
    no strict 'refs';
    print {$fh} $tag if( $tag && (!@handlers || $last_handler_res));
}
else
{
    ## no critic (TestingAndDebugging::ProhibitNoStrict);
    no strict 'refs';
    print {$fh} $tag if( $tag);
}
return;
}

sub _twig_end_check_roots
{ # warn " in _twig_end_check_roots...\n"; # DEBUG handler

    my( $p, $gi, %att)= @_;
    my $t= $p->{twig};
    # $tag can be empty (<elt/>), hence the undef and the tests for defined
    my $tag= $t->{twig_default_print} ? $t->{twig_keep_encoding} ? $p->original_string

        : $p->recognized_string
        : undef;
    my $fh= $t->{twig_output_fh} || select() || \*STDOUT;

    if( $t->{twig_endtag_handlers})
    { # look for end tag handlers
        my @handlers= _handler( $t, $t->{twig_endtag_handlers}, $gi);
        my $last_handler_res=1;
        foreach my $handler ( @handlers)
        { $last_handler_res= $handler->($t, $gi) || last; }
        #if( ! $last_handler_res)
        # { pop @{$t->{_twig_context_stack}}; warn "tested";
        # return;
    }
}

```

```

    # }
}
{
    ## no critic (TestingAndDebugging::ProhibitNoStrict);
    no strict 'refs';
    print {$fh} $tag if( defined $tag);
}
if( $p->depth == 0)
{
    _twig_end( $p, $gi);
    $t->root->{end_tag_flushed}=1;
}

pop @{$t->{_twig_context_stack}};
return;
}

sub _twig_pi_check_roots
{ # warn " in _twig_pi_check_roots...\n"; # DEBUG handler
    my( $p, $target, $data)= @_;
    my
    $t= $p->{twig};
    my $pi= $t->{twig_default_print} ? $t->{twig_keep_encoding} ? $p->original_string
        : $p->recognized_string
        : undef;
    my $fh= $t->{twig_output_fh} || select() || \*STDOUT;

    if( my $handler= $t->{twig_handlers}->{pi_handlers}->{$target}
        || $t->{twig_handlers}->{pi_handlers}->{"})
    {
        # if handler is called on pi, then it needs to be processed as a regular node
        my @flags= qw( twig_process_pi twig_keep_pi);
        my @save= @{$t}{@flags}; # save pi related flags
        @{$t}{@flags}= (1, 0); # override them, pi needs to be processed
        _twig_pi( @_); # call handler on the pi
        @{$t}{@flags}= @save;; # restore flag
    }
    else
    {
        ## no critic (TestingAndDebugging::ProhibitNoStrict);
        no strict 'refs';
        print {$fh} $pi if( defined( $pi));
    }
    return;
}

```



```

sub _output_ignored
{ my( $t, $p)= @_ ;
  my $action= $t->{twig_ignore_action};

  my $get_string= $t->{twig_keep_encoding} ? 'original_string' : 'recognized_string';

  if( $action eq 'print' ) { print $p->$get_string; }
  else
  { my $string_ref;
    if( $action eq 'string')
    { $string_ref= $t->{twig_buffered_string}; }
    elsif( ref( $action) && ref( $action) eq 'SCALAR')
    { $string_ref= $action; }
    else
    { _croak( "wrong ignore action: $action"); }

    $$string_ref .= $p->$get_string;
  }
}

```

```

sub _twig_ignore_start
{ # warn " in _twig_ignore_start...\n"; # DEBUG handler

  my( $p, $gi)= @_ ;
  my $t= $p->{twig};
  $t->{twig_ignore_level}++;
  my $action= $t->{twig_ignore_action};

  $t->_output_ignored( $p) unless $action eq 'discard';
  return;
}

```

```

sub _twig_ignore_end
{ # warn " in _twig_ignore_end...\n"; # DEBUG handler

  my( $p, $gi)= @_ ;
  my $t= $p->{twig};

  my $action= $t->{twig_ignore_action};
  $t->_output_ignored( $p) unless $action eq 'discard';

  $t->{twig_ignore_level}--;

  if( ! $t->{twig_ignore_level})
  {
    $t->{twig_current} = $t->{twig_ignore_elt};
  }
}

```

```

$t->{twig_current}->set_twig_current;

$t->{twig_ignore_elt}->cut; # there could possibly be a memory leak here (delete would avoid it,
                             # but could also delete elements that should not be deleted)

# restore the saved stack to the current level
splice( @{$t->{_twig_context_stack}}, $p->depth+ 1 );
#warn "stack: ", _dump_stack( $t->{_twig_context_stack}), "\n";

$p->setHandlers( @{$t->{twig_saved_handlers}});
# test for handlers
if( $t->{twig_endtag_handlers})
{ # look for end tag handlers
  my @handlers= _handler( $t, $t->{twig_endtag_handlers}, $gi);
  my $last_handler_res=1;
  foreach my $handler ( @handlers)
  { $last_handler_res= $handler->($t, $gi) || last; }
}
pop @{$t->{_twig_context_stack}};
};
return;
}

#sub _dump_stack { my( $stack)= @_; return join( ":", map { $_->{SST_TAG} } @$stack); }

sub ignore
{ my( $t, $elt, $action)= @_;
  my $current= $t->{twig_current};

  if( ! ($elt && ref( $elt) && isa( $elt, 'XML::Twig::Elt'))) { $elt= $current; }

  #warn "ignore: current = ", $current->tag, ", elt = ", $elt->tag, "\n";

  # we need the ($elt == $current->_last_child) test because the current element is set to the
  # parent _before_ handlers are called (and I can't figure out how to fix this)
  unless( ($elt == $current) || ($current->_last_child && ($elt == $current->_last_child)) || $current->in( $elt))
  { _croak( "element to be ignored must be ancestor of current element"); }

  $t->{twig_ignore_level}= $current == $elt ? 1 : $t->_level_in_stack( $current) - $t->_level_in_stack($elt) + 1;
  #warn "twig_ignore_level:
  $t->{twig_ignore_level} (current: ", $current->tag, ", elt: ", $elt->tag, "\n";
  $t->{twig_ignore_elt} = $elt; # save it, so we can delete it later

  $action ||= 'discard';
  if( !($action eq 'print' || $action eq 'string' || ( ref( $action) && ref( $action) eq 'SCALAR')))
  { $action= 'discard'; }

  $t->{twig_ignore_action}= $action;

```

```

my $p= $t->{twig_parser};
my @saved_handlers= $p->setHandlers( %twig_handlers_ignore); # set handlers

my $get_string= $t->{twig_keep_encoding} ? 'original_string' : 'recognized_string';

my $default_handler;

if( $action ne 'discard')
{ if( $action eq 'print')
  { $p->setHandlers( Default => sub { print $_[0]->$get_string; }); }
  else
  { my $string_ref;
    if( $action eq 'string')
    { if( ! exists $t->{twig_buffered_string}) { $t->{twig_buffered_string}=""; }
      $string_ref= $t->{twig_buffered_string};
    }

    elsif( ref( $action) && ref( $action) eq 'SCALAR')
    { $string_ref= $action; }

    $p->setHandlers( Default => sub { $$string_ref .= $_[0]->$get_string; });
  }
  $t->_output_ignored( $p, $action);
}

$t->{twig_saved_handlers}= \@saved_handlers;    # save current handlers
}

sub _level_in_stack
{ my( $t, $elt)= @_ ;
  my $level=1;
  foreach my $elt_in_stack ( @{$t->{_twig_context_stack}} )
  { if( $elt_in_stack->{$ST_ELT} && ($elt == $elt_in_stack->{$ST_ELT})) { return $level }
    $level++;
  }
}

# select $t->{twig_output_fh} and store the current selected fh
sub _set_fh_to_twig_output_fh
{ my $t= shift;
  my $output_fh= $t->{twig_output_fh};
  if( $output_fh && !$t->{twig_output_fh_selected})
  { # there is an output fh
    $t->{twig_selected_fh}= select(); # store the currently selected fh
  }
}

```

```

        $t->{twig_output_fh_selected}=1;
        select $output_fh;          # select the output
        fh for the twig
    }
}

# select the fh that was stored in $t->{twig_selected_fh}
# (before $t->{twig_output_fh} was selected)
sub _set_fh_to_selected_fh
{ my $t= shift;
  return unless( $t->{twig_output_fh});
  my $selected_fh= $t->{twig_selected_fh};
  $t->{twig_output_fh_selected}=0;
  select $selected_fh;
  return;
}

sub encoding
{ return $_[0]->{twig_xmldecl}->{encoding} if( $_[0]->{twig_xmldecl}); }

sub set_encoding
{ my( $t, $encoding)= @_;
  $t->{twig_xmldecl} ||={};
  $t->set_xml_version( "1.0") unless( $t->xml_version);
  $t->{twig_xmldecl}->{encoding}= $encoding;
  return $t;
}

sub output_encoding
{ return $_[0]->{output_encoding}; }

sub set_output_encoding
{ my( $t, $encoding)= @_;
  my $output_filter= $t->output_filter || "";

  if( ($encoding && $encoding !~ m{^utf-?8$}i) || $t->{twig_keep_encoding} || $output_filter)
  { $t->set_output_filter( _encoding_filter( $encoding || "")); }

  $t->{output_encoding}= $encoding;
  return $t;
}

sub xml_version
{ return $_[0]->{twig_xmldecl}->{version} if( $_[0]->{twig_xmldecl}); }

sub set_xml_version
{ my( $t, $version)= @_;

```

```

    $t->{twig_xmldecl} ||= {};
    $t->{twig_xmldecl}->{version} = $version;
    return $t;
}

sub standalone
{ return $_[0]->{twig_xmldecl}->{standalone} if( $_[0]->{twig_xmldecl}); }

sub set_standalone
{ my( $t, $standalone) = @_;
  $t->{twig_xmldecl} ||= {};
  $t->set_xml_version( "1.0") unless( $t->xml_version);
  $t->{twig_xmldecl}->{standalone} = $standalone;
  return $t;
}

# SAX methods

sub toSAX1
{ _croak( "cannot use toSAX1 while parsing (use flush_toSAX1)") if (defined $_[0]->{twig_parser});
  shift(@_->_toSAX(@_, \&XML::Twig::Elt::_start_tag_data_SAX1,
    \&XML::Twig::Elt::_end_tag_data_SAX1
  );
}

sub toSAX2
{ _croak( "cannot use toSAX2 while parsing (use flush_toSAX2)") if (defined $_[0]->{twig_parser});
  shift(@_->_toSAX(@_, \&XML::Twig::Elt::_start_tag_data_SAX2,
    \&XML::Twig::Elt::_end_tag_data_SAX2
  );
}

sub _toSAX
{ my( $t, $handler, $start_tag_data, $end_tag_data) = @_;

  if( my $start_document = $handler->can( 'start_document'))
  { $start_document->( $handler); }

  $t->_prolog_toSAX( $handler);

  if( $t->root) { $t->root->_toSAX( $handler, $start_tag_data, $end_tag_data); }
  if( my $end_document = $handler->can( 'end_document'))
  { $end_document->( $handler); }
}

```

```

sub flush_toSAX1
{ shift(@_)->_flush_toSAX(@_, \&XML::Twig::Elt::_start_tag_data_SAX1,
    \&XML::Twig::Elt::_end_tag_data_SAX1
    );
}

```

```

sub flush_toSAX2
{ shift(@_)->_flush_toSAX(@_, \&XML::Twig::Elt::_start_tag_data_SAX2,
    \&XML::Twig::Elt::_end_tag_data_SAX2
    );
}

```

```

sub _flush_toSAX
{ my( $t, $handler, $start_tag_data, $end_tag_data)= @_;

```

```

    # the "real" last element processed, as _twig_end
    has closed it

```

```

    my $last_elt;
    if( $t->{twig_current})
    { $last_elt= $t->{twig_current}->_last_child; }
    else
    { $last_elt= $t->{twig_root}; }

```

```

    my $elt= $t->{twig_root};
    unless( $elt->_flushed)
    { # init unless already done (ie root has been flushed)
      if( my $start_document = $handler->can( 'start_document'))
      { $start_document->( $handler); }
      # flush the DTD
      $t->_prolog_toSAX( $handler)
    }

```

```

while( $elt)
{ my $next_elt;
  if( $last_elt && $last_elt->in( $elt))
  {
    unless( $elt->_flushed)
    { # just output the front tag
      if( my $start_element = $handler->can( 'start_element'))
      { if( my $tag_data= $start_tag_data->( $elt))
        { $start_element->( $handler, $tag_data); }
      }
      $elt->_set_flushed;
    }
    $next_elt= $elt->_first_child;
  }
  else
  {

```

```

# an element before the last one or the last one,
    $next_elt= $elt->_next_sibling;
    $elt->_toSAX( $handler, $start_tag_data, $end_tag_data);
    $elt->delete;
    last if( $last_elt && ($elt == $last_elt));
  }
  $elt= $next_elt;
}
if( !$t->{twig_parsing})
{ if( my $end_document = $handler->can( 'end_document'))
  { $end_document->( $handler); }
}
}

```

```

sub _prolog_toSAX
{ my( $t, $handler)= @_;
  $t->_xmldecl_toSAX( $handler);
  $t->_DTD_toSAX( $handler);
}

```

```

sub _xmldecl_toSAX
{ my( $t, $handler)= @_;
  my $decl= $t->{twig_xmldecl};
  my $data= { Version => $decl->{version},
             Encoding => $decl->{encoding},
             Standalone => $decl->{standalone},
             };
  if( my $xml_decl= $handler->can( 'xml_decl'))
  { $xml_decl->( $handler, $data); }
}

```

```

sub _DTD_toSAX
{ my( $t, $handler)= @_;
  my $doctype= $t->{twig_doctype};
  return
unless( $doctype);
  my $data= { Name => $doctype->{name},
             PublicId => $doctype->{pub},
             SystemId => $doctype->{sysid},
             };
}

```

```

if( my $start_dtd= $handler->can( 'start_dtd'))
{ $start_dtd->( $handler, $data); }

```

I should call code to export the internal subset here

```

if( my $end_dtd= $handler->can( 'end_dtd'))

```

```

    { $send_dtd->($handler); }
}

```

input/output filters

sub latin1

```

{ local $SIG{__DIE__};
  if( _use( 'Encode' ))
    { return encode_convert( 'ISO-8859-15'); }
  elsif( _use( 'Text::Iconv' ))
    { return iconv_convert( 'ISO-8859-15'); }
  elsif( _use( 'Unicode::Map8' ) && _use( 'Unicode::String' ))
    { return unicode_convert( 'ISO-8859-15'); }
  else
    { return \&regexp2latin1; }
}

```

sub _encoding_filter

```

{
  { local $SIG{__DIE__};
    my $encoding= $_[1] || $_[0];
    if( _use( 'Encode' ))
      { my $sub= encode_convert( $encoding);
        return $sub;
      }
    elsif( _use( 'Text::Iconv' ))
      { return iconv_convert( $encoding); }
    elsif( _use( 'Unicode::Map8' ) && _use( 'Unicode::String' ))
      { return unicode_convert( $encoding); }
  }
  _croak( "Encode, Text::Iconv or Unicode::Map8 and Unicode::String need to be installed in order to use encoding options");
}

```

shamelessly lifted from XML::TiePYX (works only with XML::Parse 2.27)

sub regexp2latin1

```

{ my $text=shift;
  $text=~s{([\xc0-\xc3])(.)}{ my $hi = ord($1);
    my $lo = ord($2);
    chr(((($hi & 0x03) <<6) | ($lo & 0x3F))
  }ge;
  return $text;
}

```

sub html_encode

```

{ _use( 'HTML::Entities' ) or croak "cannot use html_encode: missing HTML::Entities";
  return HTML::Entities::encode_entities($_[0] );
}

```



```

}

sub safe_encode
{ my $str= shift;
  if( $perl_version < 5.008)
    { # the no utf8 makes the regexp work in 5.6
      no utf8; #
    = perl 5.6
      $str =~ s{([\xC0-\xDF].[\xE0-\xEF]..[\xF0-\xFF]...)}
        {_XmlUtf8Decode($1)}egs;
    }
  else
    { $str= encode( ascii => $str, $FB_HTMLCREF); }
  return $str;
}

sub safe_encode_hex
{ my $str= shift;
  if( $perl_version < 5.008)
    { # the no utf8 makes the regexp work in 5.6
      no utf8; # = perl 5.6
      $str =~ s{([\xC0-\xDF].[\xE0-\xEF]..[\xF0-\xFF]...)}
        {_XmlUtf8Decode($1, 1)}egs;
    }
  else
    { $str= encode( ascii => $str, $FB_XMLCREF); }
  return $str;
}

# this one shamelessly lifted from XML::DOM
# does NOT work on 5.8.0
sub _XmlUtf8Decode
{ my ($str, $hex) = @_ ;
  my $len = length ($str);
  my $n;

  if ($len == 2)
    { my @n = unpack "C2", $str;
      $n = (($n[0] & 0x3f) << 6) + ($n[1] & 0x3f);
    }
  elsif ($len == 3)
    { my @n = unpack "C3", $str;
      $n = (($n[0] & 0x1f) << 12) + (($n[1] & 0x3f) << 6) + ($n[2] & 0x3f);
    }
  elsif ($len == 4)
    { my @n = unpack "C4", $str;
      $n = (($n[0] & 0x0f) << 18) + (($n[1] & 0x3f) << 12)
        + (($n[2] & 0x3f) << 6) + ($n[3] & 0x3f);
    }
}

```

```

    }
    elsif ($len == 1) # just to be complete...
    { $n = ord ($str); }
    else
    { croak "bad value [$str] for _XmlUtf8Decode"; }

    my $char= $hex ? sprintf ("%#x%x;", $n) : "&#{$n}";
    return $char;
}

sub unicode_convert
{ my $enc= $_[1] ? $_[1] : $_[0]; # so the method can be called on the twig or directly
  _use( 'Unicode::Map8') or croak "Unicode::Map8 not available, needed for encoding filter: $!";
  _use( 'Unicode::String') or croak "Unicode::String not available, needed for encoding filter: $!";
  import Unicode::String qw(utf8);
  my $sub= eval qq{ { $NO_WARNINGS;
    my \ $cnv;
    BEGIN { \ $cnv= Unicode::Map8->new(\ $enc)
      or croak "Can't create converter to \ $enc";

    }

    sub { return \ $cnv->to8 (utf8(\ $_[0])->ucs2); }

    };
  unless( $sub) { croak $@; }
  return $sub;
}

sub iconv_convert
{ my $enc= $_[1] ? $_[1] : $_[0]; # so the method can be called on the twig or directly
  _use( 'Text::Iconv') or croak "Text::Iconv not available, needed for encoding filter: $!";
  my $sub= eval qq{ { $NO_WARNINGS;
    my \ $cnv;
    BEGIN { \ $cnv = Text::Iconv->new( 'utf8', \ $enc)
      or croak "Can't create iconv converter to \ $enc";

    }
    sub { return \ $cnv->convert( \ $_[0]); }

    };
  unless( $sub)
  { if( $@ =~ m{^Unsupported conversion: Invalid argument})
    { croak "Unsupported encoding: $enc"; }
    else
    { croak $@; }
  }

  return $sub;
}

```

```

}

sub encode_convert
{ my $enc=
$_[1] ? $_[1] : $_[0]; # so the method can be called on the twig or directly
my $sub= eval qq{sub { $NO_WARNINGS; return encode( "$enc", $_[0]); } };
croak "can't create Encode-based filter: $@" unless( $sub);
return $sub;
}

# XML::XPath compatibility
sub getRootNode    { return $_[0]; }
sub getParentNode  { return undef; }
sub getChildNodes  { my @children= ($_[0]->root); return wantarray ? @children : \@children; }

sub _weakrefs      { return $weakrefs; }
sub _set_weakrefs { $weakrefs=shift() || 0; XML::Twig::Elt::set_destroy(if ! $weakrefs; } # for testing purposes

sub _dump
{ my $t= shift;
my $dump="";

$dump="document\n"; # should dump twig level data here
if( $t->root) { $dump .= $t->root->_dump( @_); }

return $dump;
}

1;

#####
package XML::Twig::Entity_list;
#####

*isa= *UNIVERSAL::isa;

sub
new
{ my $class = shift;
my $self={ entities => {}, updated => 0};

bless $self, $class;
return $self;
}

```

```

sub add_new_ent
{ my $ent_list= shift;
  my $ent= XML::Twig::Entity->new( @_);
  $ent_list->add( $ent);
  return $ent_list;
}

sub _add_list
{ my( $ent_list, $to_add)= @_;
  my $ents_to_add= $to_add->{entities};
  return $ent_list unless( $ents_to_add && %$ents_to_add);
  @{$ent_list->{entities}}{keys %$ents_to_add}= values %$ents_to_add;
  $ent_list->{updated}=1;
  return $ent_list;
}

sub add
{ my( $ent_list, $ent)= @_;
  $ent_list->{entities}->{$ent->{name}}= $ent;
  $ent_list->{updated}=1;
  return $ent_list;
}

sub ent
{ my( $ent_list, $ent_name)= @_;
  return $ent_list->{entities}->{$ent_name};
}

# can be called with an entity or with an entity name
sub delete
{ my $ent_list= shift;
  if( isa( ref $_[0], 'XML::Twig::Entity'))
  { # the second arg is an entity
    my $ent= shift;
    delete
    $ent_list->{entities}->{$ent->{name}};
  }
  else
  { # the second arg was not entity, must be a string then
    my $name= shift;
    delete $ent_list->{entities}->{$name};
  }
  $ent_list->{updated}=1;
  return $ent_list;
}

sub print

```

```

{ my ($Sent_list, $fh)= @_ ;
  my $old_select= defined $fh ? select $fh : undef;

  foreach my $Sent_name ( sort keys %{$Sent_list->{entities}})
    { my $Sent= $Sent_list->{entities}->{$Sent_name};
      # we have to test what the entity is or un-defined entities can creep in
      if( isa( $Sent, 'XML::Twig::Entity')) { $Sent->print(); }
    }
  select $old_select if( defined $old_select);
  return $Sent_list;
}

sub text
{ my ($Sent_list)= @_ ;
  return join "\n", map { $Sent_list->{entities}->{$_}->text } sort keys %{$Sent_list->{entities}};
}

# return the list of entity names
sub entity_names
{ my $Sent_list= shift;
  return (sort keys %{$Sent_list->{entities}}) ;
}

sub list
{ my ($Sent_list)= @_ ;

  return map { $Sent_list->{entities}->{$_} } sort keys %{$Sent_list->{entities}};
}

1;

#####
package XML::Twig::Entity;
#####

#*isa= *UNIVERSAL::isa;

sub new
{ my( $class, $name, $val, $sysid, $pubid, $ndata, $param)= @_ ;
  $class= ref( $class) || $class;

  my $self={};

  $self->{name} = $name;
  $self->{val} = $val if( defined $val );
  $self->{sysid} = $sysid if( defined $sysid);
  $self->{pubid} = $pubid if( defined $pubid);

```

```

$self->{ndata} = $ndata if( defined $ndata);
$self->{param} = $param if( defined $param);

bless $self, $class;
return $self;
}

sub name { return $_[0]->{name}; }
sub val { return $_[0]->{val}; }
sub sysid { return defined( $_[0]->{sysid}) ? $_[0]->{sysid} : ""; }
sub pubid { return defined( $_[0]->{pubid}) ? $_[0]->{pubid} : ""; }
sub ndata { return defined( $_[0]->{ndata}) ? $_[0]->{ndata} : ""; }
sub param { return defined( $_[0]->{param}) ? $_[0]->{param} : ""; }

sub print
{ my ($ent, $fh)= @_ ;
  my $text= $ent->text;
  if( $fh) { print $fh $text . "\n"; }
  else { print $text . "\n"; }
}

sub sprint
{ my ($ent)= @_ ;
  return $ent->text;
}

sub text
{ my ($ent)= @_ ;
  #warn "text called: ", $ent->_dump, "\n";
  return " if( !$ent->{name});
  my @tokens;
  push @tokens, '<!ENTITY';

  push @tokens, '%' if( $ent->{param});
  push @tokens, $ent->{name};

  if( defined $ent->{val} && !defined( $ent->{sysid}) && !defined($ent->{pubid}))
  { push @tokens, _quoted_val( $ent->{val});
  }
  elsif( defined $ent->{sysid})
  { push @tokens, 'PUBLIC', _quoted_val( $ent->{pubid}) if( $ent->{pubid});
    push @tokens, 'SYSTEM' unless( $ent->{pubid});
    push @tokens, _quoted_val( $ent->{sysid});
    push @tokens, 'NDATA', $ent->{ndata} if( $ent->{ndata});
  }
}

```

```

return join( ' ', @tokens ) . '>';

}

sub _quoted_val
{ my $q= $_[0]=~ m{"}" ? q{"} : q{ };
  return qq{$q$_[0]$q};
}

sub _dump
{ my( $ent)= @_; return join( " - ", map { "$_ => '$ent->{$_}'" } grep { defined $ent->{$_} } sort keys %$ent); }

1;

#####
package XML::Twig::Notation_list;
#####

*isa= *UNIVERSAL::isa;

sub new
{ my $class = shift;
  my $self={ notations => {}, updated => 0};

  bless $self, $class;
  return $self;
}

sub add_new_notation
{ my $notation_list= shift;
  my $notation= XML::Twig::Notation->new( @_);
  $notation_list->add( $notation);
  return $notation_list;
}

sub _add_list
{ my( $notation_list, $to_add)= @_;
  my $notations_to_add= $to_add->{notations};
  return $notation_list unless( $notations_to_add && %$notations_to_add);
  @{$notation_list->{notations}}{keys %$notations_to_add}= values %$notations_to_add;

  $notation_list->{updated}=1;
  return $notation_list;
}

sub add
{ my( $notation_list, $notation)= @_;

```

```

$notation_list->{notations}->{$notation->{name}}= $notation;
$notation_list->{updated}=1;
return $notation_list;
}

```

sub notation

```

{ my( $notation_list, $notation_name)= @_;
  return $notation_list->{notations}->{$notation_name};
}

```

can be called with an notation or with an notation name

sub delete

```

{ my $notation_list= shift;
  if( isa( ref $_[0], 'XML::Twig::Notation'))
  { # the second arg is an notation
    my $notation= shift;
    delete $notation_list->{notations}->{$notation->{name}};
  }
  else
  { # the second arg was not notation, must be a string then
    my $name= shift;
    delete $notation_list->{notations}->{$name};
  }
  $notation_list->{updated}=1;
  return $notation_list;
}

```

sub print

```

{ my ($notation_list, $fh)= @_;
  my $old_select= defined $fh ? select $fh : undef;

  foreach my $notation_name
  ( sort keys %{$notation_list->{notations}})
  { my $notation= $notation_list->{notations}->{$notation_name};
    # we have to test what the notation is or un-defined notations can creep in
    if( isa( $notation, 'XML::Twig::Notation')) { $notation->print(); }
  }
  select $old_select if( defined $old_select);
  return $notation_list;
}

```

sub text

```

{ my ($notation_list)= @_;
  return join "\n", map { $notation_list->{notations}->{$_->text} sort keys %{$notation_list->{notations}};
}

```

return the list of notation names

sub notation_names


```

{ my $notation_list= shift;
  return (sort keys %{$notation_list->{notations}});
}

sub list
{ my ($notation_list)= @_;
  return map { $notation_list->{notations}->{$_} } sort keys %{$notation_list->{notations}};
}

1;

#####
package XML::Twig::Notation;
#####

#*isa= *UNIVERSAL::isa;

BEGIN

{ *sprint= *text;
}

sub new
{ my( $class, $name, $base, $sysid, $pubid)= @_;
  $class= ref( $class) || $class;

  my $self={};

  $self->{name} = $name;
  $self->{base} = $base if( defined $base );
  $self->{sysid} = $sysid if( defined $sysid);
  $self->{pubid} = $pubid if( defined $pubid);

  bless $self, $class;
  return $self;
}

sub name { return $_[0]->{name}; }
sub base { return $_[0]->{base}; }
sub sysid { return $_[0]->{sysid}; }
sub pubid { return $_[0]->{pubid}; }

sub print
{ my ($notation, $fh)= @_;
  my $text= $notation->text;

```

```

    if( $fh) { print $fh $text . "\n"; }
    else    { print $text . "\n"; }
}

sub text
{ my ($notation)= @_;
  return " if( !$notation->{name});
  my @tokens;
  push @tokens, '<!NOTATION';
  push @tokens, $notation->{name};
  push @tokens, ( 'PUBLIC', _quoted_val( $notation->{pubid} ) ) if $notation->{pubid};
  push @tokens, ( 'SYSTEM' ) if
! $notation->{pubid} && $notation->{sysid};
  push @tokens, (_quoted_val( $notation->{sysid} ) ) if $notation->{sysid};

  return join( ' ', @tokens ) . '>';
}

sub _quoted_val
{ my $q= $_[0]=~ m{""} ? q{""} : q{" "};
  return qq{$q$_[0]$q};
}

sub _dump
{ my( $notation)= @_; return join( " - ", map { "$_ => '$notation->{$_}'" } grep { defined $notation->{$_} } sort
keys %$notation); }

1;

#####
package XML::Twig::Elt;
#####

use Carp;
*isa= *UNIVERSAL::isa;

my $CDATA_START  = "<![CDATA[";
my $CDATA_END    = "]]>";
my $PI_START     = "<?";
my $PI_END       = "?>";
my $COMMENT_START = "<!--";
my $COMMENT_END  = "-->";

my $XMLNS_URI    = 'http://www.w3.org/2000/xmlns/';

BEGIN
{ # set some aliases for methods

```

```

*tag      = *gi;
*name     = *gi;
*set_tag  = *set_gi;
*set_name
    = *set_gi;
*find_nodes = *get_xpath; # as in XML::DOM
*findnodes  = *get_xpath; # as in XML::LibXML
*field     = *first_child_text;
*trimmed_field = *first_child_trimmed_text;
*is_field   = *contains_only_text;
*is        = *passes;
*matches   = *passes;
*has_child  = *first_child;
*has_children = *first_child;
*all_children_pass = *all_children_are;
*all_children_match= *all_children_are;
*getElementsByTagName= *descendants;
*find_by_tag_name= *descendants_or_self;
*unwrap    = *erase;
*inner_xml  = *xml_string;
*outer_xml  = *sprint;
*add_class  = *add_to_class;

*first_child_is = *first_child_matches;
*last_child_is  = *last_child_matches;
*next_sibling_is = *next_sibling_matches;
*prev_sibling_is = *prev_sibling_matches;
*next_elt_is    = *next_elt_matches;
*prev_elt_is    = *prev_elt_matches;
*parent_is      = *parent_matches;
*child_is       = *child_matches;
*inherited_att  = *inherit_att;

*sort_children_by_value= *sort_children_on_value;

*has_atts= *att_nb;

# imports from XML::Twig
*_is_fh= *XML::Twig::_is_fh;

# XML::XPath compatibility
*string_value    = *text;
*toString        = *sprint;
*getName         = *gi;
*getRootNode     = *twig;
*getNextSibling  = *_next_sibling;
*getPreviousSibling = *_prev_sibling;
*isElementNode   = *is_elt;

```

```

*isTextNode      = *is_text;
*isPI            = *is_pi;
*isPINode        = *is_pi;
*isProcessingInstructionNode= *is_pi;
*isComment       = *is_comment;
*isCommentNode   = *is_comment;
*getTarget       = *target;
*getFirstChild   = *_first_child;
*getLastChild    = *_last_child;

# try using weak references
# test whether we can use weak references
{ local $SIG{__DIE__};
  if( eval 'require Scalar::Util' && defined(
&Scalar::Util::weaken) )
    { import Scalar::Util qw(weaken); }
  elsif( eval 'require WeakRef' )
    { import WeakRef; }
}
}

# can be called as XML::Twig::Elt->new( [[ $gi, $atts, [@content] ] ] )
# - gi is an optional gi given to the element
# - $atts is a hashref to attributes for the element
# - @content is an optional list of text and elements that will
#   be inserted under the element
sub new
{ my $class= shift;
  $class= ref $class || $class;
  my $elt = {};
  bless ($elt, $class);

  return $elt unless @_;

  if( @_ == 1 && $_[0] =~ m{^\s*<} ) { return $class->parse( @_); }

  # if a gi is passed then use it
  my $gi= shift;
  $elt->set_gi( $gi);

  my $atts= ref $_[0] eq 'HASH' ? shift : undef;

  if( $atts && defined $atts->{$CDATA})
  { delete $atts->{$CDATA};

    my $cdata= $class->new( $CDATA => @_);

```

```

        return $class->new( $gi, $atts, $cdata);
    }

    if( $gi eq $PCDATA)
    { if( grep { ref $_ } @_ ) { croak
"element $PCDATA can only be created from text"; }
        $elt->_set_pcddata( join ", @_");
    }
    elsif( $gi eq $ENT)
    { $elt->set_ent( shift); }
    elsif( $gi eq $CDATA)
    { if( grep { ref $_ } @_ ) { croak "element $CDATA can only be created from text"; }
        $elt->_set_cdata( join ", @_");
    }
    elsif( $gi eq $COMMENT)
    { if( grep { ref $_ } @_ ) { croak "element $COMMENT can only be created from text"; }
        $elt->_set_comment( join ", @_");
    }
    elsif( $gi eq $PI)
    { if( grep { ref $_ } @_ ) { croak "element $PI can only be created from text"; }
        $elt->_set_pi( shift, join ", @_");
    }
    else
    { # the rest of the arguments are the content of the element
        if( @_ )
        { $elt->set_content( @_); }
        else
        { $elt->set_empty( 1); }
    }

    if( $atts)
    { # the attribute hash can be used to pass the asis status
        if( defined $atts->{$ASIS}) { $elt->set_asis( $atts->{$ASIS} );
delete $atts->{$ASIS}; }
        if( defined $atts->{$EMPTY}) { $elt->set_empty( $atts->{$EMPTY}); delete $atts->{$EMPTY}; }
        if( keys %$atts) { $elt->set_atts( $atts); }
        $elt->_set_id( $atts->{$ID}) if( $atts->{$ID});
    }

    return $elt;
}

# optimized version of $elt->new( PCDATA, $text);
sub _new_pcddata
{ my $class= $_[0];
  $class= ref $class || $class;
  my $elt = {};
  bless $elt, $class;

```

```

    $elt->set_gi( $PCDATA);
    $elt->_set_pcdata( $_[1]);
    return $elt;
}

# this function creates an XML::Twig::Elt from a string
# it is quite clumsy at the moment, as it just creates a
# new twig then returns its root
# there might also be memory leaks there
# additional arguments are passed to new XML::Twig
sub parse
{
    my $class= shift;
    if( ref( $class)) { $class= ref( $class); }
    my $string= shift;
    my %args= @_ ;
    my $t= XML::Twig->new(%args);
    $t->parse( $string);
    my $elt= $t->root;
    # clean-up the node
    delete $elt->{twig};
    # get rid of the twig data
    delete $elt->{twig_current}; # better get rid of this too
    if( $t->{twig_id_list}) { $elt->{twig_id_list}= $t->{twig_id_list}; }
    $elt->cut;
    undef $t->{twig_root};
    return $elt;
}

sub set_inner_xml
{
    my( $elt, $xml, @args)= @_ ;
    my $new_elt= $elt->parse( "<dummy>$xml</dummy>", @args);
    $elt->cut_children;
    $new_elt->paste_first_child( $elt);
    $new_elt->erase;
    return $elt;
}

sub set_outer_xml
{
    my( $elt, $xml, @args)= @_ ;
    my $new_elt= $elt->parse( "<dummy>$xml</dummy>", @args);
    $elt->cut_children;
    $new_elt->replace( $elt);
    $new_elt->erase;
    return $new_elt;
}

sub set_inner_html

```

```

{ my( $elt, $html)= @_ ;
  my $t= XML::Twig->new->parse_html( "<html>$html</html>");
  my $new_elt= $t->root;
  if( $elt->tag eq 'head')
    { $new_elt->first_child( 'head')->unwrap;
      $new_elt->first_child( 'body')->cut;
    }
  elsif( $elt->tag ne 'html')
    { $new_elt->first_child(
'head')->cut;
      $new_elt->first_child( 'body')->unwrap;
    }
  $new_elt->cut;
  $elt->cut_children;
  $new_elt->paste_first_child( $elt);
  $new_elt->erase;
  return $elt;
}

sub set_gi
{ my( $elt, $gi)= @_ ;
  unless( defined $XML::Twig::gi2index{$gi})
    { # new gi, create entries in %gi2index and @index2gi
      push @XML::Twig::index2gi, $gi;
      $XML::Twig::gi2index{$gi}= $#XML::Twig::index2gi;
    }
  $elt->{gi}= $XML::Twig::gi2index{$gi};
  return $elt;
}

sub gi { return $XML::Twig::index2gi[$_->{gi}]; }

sub local_name
{ my $elt= shift;
  return _local_name( $elt->gi);
}

sub ns_prefix
{ my $elt= shift;
  return _ns_prefix( $elt->gi);
}

# namespace prefix for any qname (can be used for elements or attributes)
sub _ns_prefix
{ my $qname= shift;
  if( $qname=~ m{^[^:]*:})
    { return $1; }
  else

```

```

    { return( ""); } # should it be " ?
}

# local name for any qname (can be used for elements or
attributes)
sub _local_name
{ my $qname= shift;
  (my $local= $qname)=~ s{^[^:]*:}{};
  return $local;
}

#sub get_namespace
sub namespace ## no critic (Subroutines::ProhibitNestedSubs);
{ my $elt= shift;
  my $prefix= defined $_[0] ? shift() : $elt->ns_prefix;
  my $ns_att= $prefix ? "xmlns:$prefix" : "xmlns";
  my $expanded= $DEFAULT_NS{$prefix} || $elt->_inherit_att_through_cut( $ns_att) || "";
  return $expanded;
}

sub declare_missing_ns ## no critic (Subroutines::ProhibitNestedSubs);
{ my $root= shift;
  my %missing_prefix;
  my $map= $root->_current_ns_prefix_map;

  foreach my $prefix (keys %$map)
  { my $prefix_att= $prefix eq '#default' ? 'xmlns' : "xmlns:$prefix";
    if( ! $root->att( $prefix_att))
    { $root->set_att( $prefix_att => $map->{$prefix}); }
  }
  return $root;
}

sub _current_ns_prefix_map
{ my( $elt)= shift;
  my $map;
  while( $elt)
  { foreach my $att ($elt->att_names)
    { my $prefix= $att
eq 'xmlns'      ? '#default'
      : $att=~ m{^xmlns:(.*)$} ? $1
      : next
      ;
    if( ! exists $map->{$prefix}) { $map->{$prefix}= $elt->att( $att); }
  }
  $elt= $elt->_parent || $elt->former_parent;
}
return $map;

```



```

}

sub set_ns_decl
{ my( $elt, $uri, $prefix)= @_ ;
  my $ns_att= $prefix ? "xmlns:$prefix" : 'xmlns';
  $elt->set_att( $ns_att => $uri);
  return $elt;
}

sub set_ns_as_default
{ my( $root, $uri)= @_ ;
  my @ns_decl_to_remove;
  foreach my $elt ($root->descendants_or_self)
  { if( $elt->_ns_prefix && $elt->namespace eq $uri)
    { $elt->set_tag( $elt->local_name); }
    # store any namespace declaration for that uri
    foreach my $ns_decl (grep { $_=~ m{xmlns:(|$)} && $elt->att( $_) eq $uri } $elt->att_names)
    { push @ns_decl_to_remove, [$elt, $ns_decl]; }
  }
  $root->set_ns_decl( $uri);
  # now remove the ns declarations (if done
  # earlier then descendants of an element with the ns declaration
  # are not considered being in the namespace
  foreach my $ns_decl_to_remove ( @ns_decl_to_remove)
  { my( $elt, $ns_decl)= @$ns_decl_to_remove;
    $elt->del_att( $ns_decl);
  }

  return $root;
}

# return #ELT for an element and #PCDATA... for others
sub get_type
{ my $gi_nb= $_[0]->{gi}; # the number, not the string
  return $ELT if( $gi_nb >= $XML::Twig::SPECIAL_GI);
  return $_[0]->gi;
}

# return the gi if it's a "real" element, 0 otherwise
sub is_elt
{ if( $_[0]->{gi} >= $XML::Twig::SPECIAL_GI)
  { return $_[0]->gi; }
  else
  { return 0; }
}

```

```

sub is_pdata
{ my $elt= shift;
  return (exists $elt->{'pdata'});
}

sub is_cdata
{ my $elt= shift;
  return (exists $elt->{'cdata'});
}

sub is_pi
{ my $elt= shift;
  return (exists $elt->{'target'});
}

sub is_comment
{ my $elt= shift;
  return (exists $elt->{'comment'});
}

sub is_ent
{
  my $elt= shift;
  return (exists $elt->{ent} || $elt->{ent_name});
}

sub is_text
{ my $elt= shift;
  return (exists( $elt->{'pdata'}) || (exists $elt->{'cdata'}));
}

sub is_empty
{ return $_[0]->{empty} || 0; }

sub set_empty
{ $_[0]->{empty}= defined( $_[1] ) ? $_[1] : 1; return $_[0]; }

sub set_not_empty
{ delete $_[0]->{empty} if( $_[0]->is_empty); return $_[0]; }

sub set_asis
{ my $elt=shift;

  foreach my $descendant ($elt, $elt->_descendants )
  { $descendant->{asis}= 1;

```

```

        if( $descendant->is_cdata)
        { $descendant->set_gi( $PCDATA);
          $descendant->_set_pcddata( $descendant->cdata);
        }

    }
    return $elt;
}

sub set_not_asis
{ my $elt=shift;
  foreach my $descendant ($elt, $elt->descendants)
  { delete $descendant->{asis} if $descendant->{asis};}
  return $elt;
}

sub is_asis
{ return $_[0]->{asis}; }

sub closed
{ my $elt= shift;
  my $t= $elt->twig || return;
  my $curr_elt= $t->{twig_current};
  return 1 unless( $curr_elt);
  return $curr_elt->in( $elt);
}

sub set_pcddata
{ my( $elt, $pcdata)= @_;

  if( $elt->_extra_data_in_pcddata)
  { _try_moving_extra_data( $elt, $pcdata);
  }
  $elt->{pcdata}= $pcdata;
  return $elt;
}

sub _extra_data_in_pcddata { return $_[0]->{extra_data_in_pcddata}; }
sub _set_extra_data_in_pcddata { $_[0]->{extra_data_in_pcddata}= $_[1]; return $_[0]; }
sub _del_extra_data_in_pcddata { delete $_[0]->{extra_data_in_pcddata}; return $_[0]; }
sub _unshift_extra_data_in_pcddata
{ my $e= shift;
  $e->{extra_data_in_pcddata}||=[];
  unshift @{$e->{extra_data_in_pcddata}}, { text => shift(), offset => shift() };
}

sub _push_extra_data_in_pcddata
{ my $e= shift;
  $e->{extra_data_in_pcddata}||=[];

```

```

push @{$e->{extra_data_in_pdata}}, { text => shift(), offset => shift() };
}

sub _extra_data_before_end_tag { return $_[0]->{extra_data_before_end_tag} || ""; }
sub _set_extra_data_before_end_tag
{ $_[0]->{extra_data_before_end_tag}= $_[1]; return $_[0]}
sub _del_extra_data_before_end_tag { delete $_[0]->{extra_data_before_end_tag}; return $_[0]}
sub _prefix_extra_data_before_end_tag
{ my( $elt, $data)= @_;
  if($elt->{extra_data_before_end_tag})
    { $elt->{extra_data_before_end_tag}= $data . $elt->{extra_data_before_end_tag}; }
  else
    { $elt->{extra_data_before_end_tag}= $data; }
  return $elt;
}

# internal, in cases where we know there is no extra_data (inlined anyway!)
sub _set_pdata { $_[0]->{pdata}= $_[1]; }

# try to figure out if we can keep the extra_data around
sub _try_moving_extra_data
{ my( $elt, $modified)=@_;
  my $initial= $elt->{pdata};
  my $cpis= $elt->_extra_data_in_pdata;

  if( (my $offset= index( $modified, $initial)) != -1)
    { # text has been added
      foreach (@$cpis) { $_->{offset}+= $offset; }
    }
  elsif( ($offset= index( $initial, $modified)) != -1)
    { # text has been cut
      my $len= length(
$modified);
      foreach my $cpi (@$cpis) { $cpi->{offset} -= $offset; }
      $elt->_set_extra_data_in_pdata([ grep { $_->{offset} >= 0 && $_->{offset} < $len } @$cpis ]);
    }
  else
    { _match_extra_data_words( $elt, $initial, $modified)
      || _match_extra_data_chars( $elt, $initial, $modified)
      || $elt->_del_extra_data_in_pdata;
    }
}

sub _match_extra_data_words
{ my( $elt, $initial, $modified)= @_;
  my @initial= split /\b/, $initial;
  my @modified= split /\b/, $modified;

```

```

    return _match_extra_data( $elt, length( $initial), \@initial, \@modified);
}

```

```

sub _match_extra_data_chars
{ my( $elt, $initial, $modified)= @_ ;
  my \@initial= split //, $initial;
  my \@modified= split //, $modified;

  return _match_extra_data( $elt, length( $initial), \@initial, \@modified);
}

```

```

sub _match_extra_data
{ my( $elt, $length, $initial, $modified)= @_ ;

  my $cpis= $elt->_extra_data_in_pdata;

  if(
    @$initial <= @$modified)
  {
    my( $ok, $positions, $offsets)= _pos_offset( $initial, $modified);
    if( $ok)
    { my $offset=0;
      my $pos= shift @$positions;
      foreach my $cpi (@$cpis)
      { while( $cpi->{offset} >= $pos)
        { $offset= shift @$offsets;
          $pos= shift @$positions || $length +1;
        }
        $cpi->{offset} += $offset;
      }
      return 1;
    }
  }
  else
  { my( $ok, $positions, $offsets)= _pos_offset( $modified, $initial);
    if( $ok)
    { #print STDERR "pos:  ", join( ':', @$positions), "\n",
      #           "offset: ", join( ':', @$offsets), "\n";
      my $offset=0;
      my $pos= shift @$positions;
      my $prev_pos= 0;

      foreach my $cpi (@$cpis)
      { while( $cpi->{offset} >= $pos)
        { $offset= shift @$offsets;
          $prev_pos=
$pos;
          $pos= shift @$positions || $length +1;

```

```

    }
    $cpi->{offset} -= $offset;
    if( $cpi->{offset} < $prev_pos) { delete $cpi->{text}; }
  }
  $elt->_set_extra_data_in_pdata( [ grep { exists $_->{text} } @$cpis ] );
  return 1;
}
}
return 0;
}

```

```

sub _pos_offset
{ my( $short, $long)= @_;
  my( @pos, @offset);
  my( $s_length, $l_length)=(0,0);
  while (@$short)
  { my $s_word= shift @$short;
    my $l_word= shift @$long;
    if( $s_word ne $l_word)
    { while( @$long && $s_word ne $l_word)
      { $l_length += length( $l_word);
        $l_word= shift @$long;
      }
      if( !@$long && $s_word ne $l_word) { return 0; }
      push @pos, $s_length;
      push @offset, $l_length - $s_length;
    }
    my $length= length( $s_word);
    $s_length += $length;
    $l_length
  += $length;
  }
  return( 1, \@pos, \@offset);
}

```

```

sub append_pdata
{ $_[0]->{'pdata'}.= $_[1];
  return $_[0];
}

```

```

sub pdata      { return $_[0]->{pdata}; }

```

```

sub append_extra_data
{ $_[0]->{extra_data}.= $_[1];
  return $_[0];
}

```

```

sub set_extra_data
{ $_[0]->{extra_data}= $_[1];
  return $_[0];
}
sub extra_data { return $_[0]->{extra_data} || ""; }

sub set_target
{ my( $elt, $target)= @_;
  $elt->{target}= $target;
  return $elt;
}
sub target { return $_[0]->{target}; }

sub set_data
{ $_[0]->{'data'}= $_[1];
  return $_[0];
}
sub data { return $_[0]->{data}; }

sub set_pi
{ my $elt= shift;
  unless( $elt->{gi} == $XML::Twig::gi2index{$PI})
  { $elt->cut_children;
    $elt->set_gi( $PI);
  }
  return $elt->_set_pi( @_);
}

sub _set_pi
{ $_[0]->set_target( $_[1]);
  $_[0]->set_data( $_[2]);
  return $_[0];
}

sub pi_string { my $string= $PI_START . $_[0]->target;
  my $data= $_[0]->data;
  if( defined( $data) && $data ne "") { $string .= " $data"; }
  $string .= $PI_END ;
  return $string;
}

sub set_comment
{ my $elt= shift;
  unless( $elt->{gi} == $XML::Twig::gi2index{$COMMENT})
  { $elt->cut_children;
    $elt->set_gi( $COMMENT);
  }
}

```

```

    $elt->_set_comment( $_[0]);
    return $elt;
}

sub _set_comment { $_[0]->{comment}= $_[1]; return $_[0]; }
sub comment { return $_[0]->{comment}; }
sub comment_string { return $COMMENT_START . _comment_escaped_string( $_[0]->comment) .
$COMMENT_END; }
# comments cannot start or end with
sub _comment_escaped_string
{ my( $c)= @_;
  $c=~ s{^~}{ -};
  $c=~ s{-}$}{ - };
  $c=~ s{--}{ - -}g;
  return $c;
}

sub set_ent { $_[0]->{ent}= $_[1]; return $_[0]; }
sub ent { return $_[0]->{ent}; }
sub ent_name { return substr( $_[0]->ent, 1, -1);}

sub set_cdata
{ my $elt= shift;
  unless( $elt->{gi} == $XML::Twig::gi2index{$CDATA})
  { $elt->cut_children;
    $elt->insert_new_elt( first_child => $CDATA, @_);
    return $elt;
  }
  $elt->_set_cdata( $_[0]);
  return $_[0];
}

sub _set_cdata
{ $_[0]->{cdata}= $_[1];
  return $_[0];
}

sub append_cdata
{ $_[0]->{cdata} .= $_[1];
  return $_[0];
}
sub cdata { return $_[0]->{cdata}; }

sub contains_only_text
{ my $elt= shift;
  return 0 unless $elt->is_elt;
  foreach my $child ($elt->_children)

```



```

    { return 0 if $child->is_elt; }
    return $elt;
}

```

```

sub contains_only
{ my( $elt, $exp)= @_ ;
  my @children= $elt->_children;
  foreach my $child (@children)
    { return 0 unless $child->is( $exp); }
  return @children || 1;
}

```

```

sub contains_a_single
{ my( $elt, $exp)= @_ ;
  my $child= $elt->_first_child or return 0;
  return 0 unless $child->passes( $exp);
  return 0 if( $child->_next_sibling);
  return $child;
}

```

```

sub root
{ my $elt= shift;
  while( $elt->_parent) { $elt= $elt->_parent; }

  return $elt;
}

```

```

sub _root_through_cut
{ my $elt= shift;
  while( $elt->_parent || $elt->former_parent) { $elt= $elt->_parent || $elt->former_parent; }
  return $elt;
}

```

```

sub twig
{ my $elt= shift;
  my $root= $elt->root;
  return $root->{twig};
}

```

```

sub _twig_through_cut
{ my $elt= shift;
  my $root= $elt->_root_through_cut;
  return $root->{twig};
}

```

used for navigation

```

# returns undef or the element, depending on whether $elt passes $cond
# $cond can be
# - empty: the element passes the condition
# - ELT ('#ELT'): the element passes the condition if it is a "real" element
# - TEXT ('#TEXT'): the element passes if it is a CDATA or PCDATA element
# - a string with an XPath condition (only a subset of XPath is actually
#   supported).
# - a regexp: the element passes if its gi matches the regexp
# - a code ref: the element passes if the code, applied on the element,
#   returns true

```

```

my %cond_cache; # expression => coderef

```

```

sub reset_cond_cache { %cond_cache=();
}

```

```

{
sub _install_cond
{ my $cond= shift;
  my $test;
  my $init="";

  my $original_cond= $cond;

  my $not= ($cond=~ s{^\s*!}{}) ? '!' : "";

  if( ref $cond eq 'CODE') { return $cond; }

  if( ref $cond eq 'Regexp')
  { $test = qq{(\$_[0]->gi=~ /$cond/)}; }
  else
  { my @tests;
    while( $cond)
    {
      # the condition is a string
      if( $cond=~ s{$ELT$SEP}{})
      { push @tests, qq{\$_[0]->is_elt}; }
      elsif( $cond=~ s{$TEXT$SEP}{})
      { push @tests, qq{\$_[0]->is_text}; }
      elsif( $cond=~ s{^\s*($REG_TAG_PART)$SEP}{})
      { push @tests, _gi_test( $1); }
      elsif( $cond=~ s{^\s*($REG_REGEXP)$SEP}{})
      { # /regexp/
        push @tests, qq{ \$_[0]->gi=~ $1 };
      }
      elsif( $cond=~ s{^\s*($REG_TAG_PART)?\s* # $1
        \[ \s*(-?)\s*(\d+)\s*\]

```

```

# [$2]
    $SEP}{ }xo
)
{ my( $gi, $neg, $index)= ($1, $2, $3);
  my $siblings= $neg ? q{$_[0]->_next_siblings} : q{$_[0]->_prev_siblings};
  if( $gi && ($gi ne '*'))
    #{ $test= qq{(($_[0]->gi eq "$gi") && (scalar( grep { \$_->gi eq "$gi" } $siblings) + 1 == $index))}; }
    { push @tests, _and( _gi_test( $gi), qq{ (scalar( grep { \$_->gi eq "$gi" } $siblings) + 1 == $index))}; }
  else
    { push @tests, qq{(scalar( $siblings) + 1 == $index)}; }
}
elsif( $cond=~ s{^\\s*($REG_TAG_PART?)\\s*($REG_PREDICATE)$SEP}{ })
{ my( $gi, $predicate)= ( $1, $2);
  push @tests, _and( _gi_test( $gi), _parse_predicate_in_step( $predicate));
}
elsif( $cond=~ s{^\\s*($REG_NAKED_PREDICATE)$SEP}{ })
{ push @tests, _parse_predicate_in_step(
$1); }
else
{ croak "wrong navigation condition '$original_cond' ($@)"; }
}
$test= @tests > 1 ? '(' . join( '|', map { "($_)" } @tests ) . ')' : $tests[0];
}

#warn "init: '$init' - test: '$test'\n";

my $sub= qq{sub { $NO_WARNINGS; $init; return $not($test) ? $_[0] : undef; } };
my $s= eval $sub;
#warn "cond: $cond\n$sub\n";
if( $@)
{ croak "wrong navigation condition '$original_cond' ($@)"; }
return $s;
}

sub _gi_test
{ my( $full_gi)= @_ ;

# optimize if the gi exists, including the case where the gi includes a dot
my $index= $XML::Twig::gi2index{$full_gi};
if( $index) { return qq{$_[0]->{gi} == $index}; }

my( $gi, $class, $id)= $full_gi=~ m{^(.?(?:(.[^.]*)|[#](.)*))?$};

my $gi_test="";
if( $gi && $gi ne '*' )
{ # 2 options, depending on whether the gi exists in gi2index
  # start optimization

```

```

my $index= $XML::Twig::gi2index{$gi};
if( $index)
{ # the gi exists, use its index as a faster shortcut
  $gi_test = qq{ \$_[0]->{gi} == $index};
}
else
# end optimization
{ # it does not exist (but might be created later), compare the strings
  $gi_test = qq{ \$_[0]->gi eq "$gi"};
}
}
else
{ $gi_test= 1; }

my $class_test="";
#warn "class: '$class'";
if( $class)
{ $class_test = qq{ defined( \$_[0]->{att}->{class}) && \$_[0]->{att}->{class} =~ m{\b$class\b} }; }

my $id_test="";
#warn "id: '$id'";
if( $id)
{ $id_test = qq{ defined( \$_[0]->{att}->{ID}) && \$_[0]->{att}->{ID} eq '$id' }; }

#warn "gi_test: '$gi_test' - class_test: '$class_test' returning ", _and( $gi_test, $class_test);
return _and( $gi_test, $class_test, $id_test);
}

# input: the original predicate
sub _parse_predicate_in_step
{ my $cond= shift;
  my %PERL_ALPHA_TEST= ( '=' => ' eq ', '!=' => ' ne ', '>' => ' gt ', '>=' => ' ge ', '<' => ' lt ', '<=' => ' le ');

  $cond=~ s/{^\s*\[\s*}\{\};
  $cond=~ s/{\s*\]\s*\$\{\};
  $cond=~ s/{( ($REG_STRING|$REG_REGEX)          # strings or regexps
    \@($REG_TAG_NAME)(?=\s*(?:[>=<=!]~|~)) # @att (followed by a comparison operator)
    \@($REG_TAG_NAME)          # @att (not followed by a comparison operator)
    |=~|!~                     # matching operators
    |([><]=?|=|=)(?=\s*[\d+-]) # test before a number
    |([><]=?|=|=)              # test, other cases
    |($REG_FUNCTION)          # no arg functions
    # this bit is a mess, but it is the only solution with this half-baked parser
    |((?:string|text)\(\s*$REG_TAG_NAME\s*)\s*$REG_MATCH\s*$REG_REGEX)
  # string( child) =~ /regexp/
    |((?:string|text)\(\s*$REG_TAG_NAME\s*)\s*!?\s*$REG_VALUE)          # string( child) = "value" (or

```

```

!=)
    |((?:string|text)\(s*$REG_TAG_NAME\s*\)\s*[<>]=?\s*$REG_VALUE)    # string( child) > "value"
    |(and|or)
  )}
  { my( $token, $string, $att, $bare_att, $num_test, $alpha_test, $func, $string_regexp, $string_eq,
$string_test, $and_or)
    = ( $1,  $2,  $3,  $4,    $5,    $6,    $7,  $8,    $9,    $10,    $11);

    if( defined $string) { $token }
    elsif( $att)        { "( \$_[0]->{att} && exists( \$_[0]->{att}->{'$att'}) && \$_[0]->{att}->{'$att'})"; }
    elsif( $bare_att)    { "( \$_[0]->{att} && defined( \$_[0]->{att}->{'$bare_att'})"); }
    elsif( $num_test && ($num_test eq '=') ) { "==" } # others tests are unchanged
    elsif( $alpha_test)  { $PERL_ALPHA_TEST{$alpha_test} }
    elsif( $func && $func =~ m{^(?:string|text)})
        { " \$_[0]->text"; }
    elsif( $string_regexp && $string_regexp =~
m{(?:string|text)\(s*($REG_TAG_NAME)s*\)\s*($REG_MATCH)s*($REG_REGEX)})
        { "(XML::Twig::_first_n { ( \$_->gi eq '$1') && ( \$_->text $2 $3) } 1, \$_[0]->_children)";
    }

    elsif( $string_eq    && $string_eq    =~
m{(?:string|text)\(s*($REG_TAG_NAME)s*\)\s*(!?)\s*($REG_VALUE)})
        { "(XML::Twig::_first_n { ( \$_->gi eq '$1') && ( \$_->text $PERL_ALPHA_TEST{$2} $3)
} 1, \$_[0]->_children)"; }

    elsif( $string_test  && $string_test  =~
m{(?:string|text)\(s*($REG_TAG_NAME)s*\)\s*([<>]=?)\s*($REG_VALUE)})
        { "(XML::Twig::_first_n { ( \$_->gi eq '$1') && ( \$_->text $2 $3) } 1, \$_[0]->_children)";
    }

    elsif( $and_or)      { $and_or eq 'and' ? '&&' : '||' ; }
    else                  { $token; }
  }gexs;
  return "($cond)";
}

sub _op
{ my $op= shift;
  if( $op eq '=') { $op= 'eq'; }
  elsif( $op eq '!=') { $op= 'ne'; }
  return $op;
}

sub passes
{ my( $elt, $cond)= @_;
  return $elt unless $cond;
  my $sub= ($cond_cache{$cond} ||= _install_cond( $cond));
  return $sub->( $elt);
}
}

```

```

sub set_parent
{ $_[0]->{parent}= $_[1];
  if( $XML::Twig::weakrefs) { weaken( $_[0]->{parent}); }
}

sub parent
{ my $elt= shift;
  my $cond= shift || return $elt->_parent;
  do { $elt= $elt->_parent || return; } until ( $elt->passes( $cond));
  return $elt;
}

sub set_first_child
{ $_[0]->{'first_child'}= $_[1];
}

sub first_child
{ my $elt= shift;
  my $cond= shift || return $elt->_first_child;
  my $child= $elt->_first_child;
  my $test_cond= ($cond_cache{$cond})
||= _install_cond( $cond));
  while( $child && !$test_cond->( $child))
  { $child= $child->_next_sibling; }
  return $child;
}

sub _first_child { return $_[0]->{first_child}; }
sub _last_child { return $_[0]->{last_child}; }
sub _next_sibling { return $_[0]->{next_sibling}; }
sub _prev_sibling { return $_[0]->{prev_sibling}; }
sub _parent { return $_[0]->{parent}; }
sub _next_siblings { my $elt= shift; my @siblings; while( $elt= $elt->{next_sibling}) { push @siblings, $elt; }
return @siblings; }
sub _prev_siblings { my $elt= shift; my @siblings; while( $elt= $elt->{prev_sibling}) { push @siblings, $elt; }
return @siblings; }

# sets a field
# arguments $record, $cond, @content
sub set_field
{ my $record = shift;
  my $cond = shift;
  my $child= $record->first_child( $cond);
  if( $child)
  { $child->set_content( @_); }
  else
  { if( $cond=~ m{^\s*($REG_TAG_NAME)})

```

```

        { my $gi= $1;
          $child= $record->insert_new_elt(
last_child => $gi, @_);
        }
      else
        { croak "can't create a field name from $cond"; }
      }
    return $child;
  }

sub set_last_child
{ $_[0]->{'last_child'}= $_[1];
  delete $_[0]->{'empty'};
  if( $XML::Twig::weakrefs ) { weaken( $_[0]->{'last_child'}); }
}

sub last_child
{ my $elt= shift;
  my $cond= shift || return $elt->_last_child;
  my $test_cond= ($cond_cache{$cond} ||= _install_cond( $cond));
  my $child= $elt->_last_child;
  while( $child && !$test_cond->( $child) )
    { $child= $child->_prev_sibling; }
  return $child
}

sub set_prev_sibling
{ $_[0]->{'prev_sibling'}= $_[1];
  if( $XML::Twig::weakrefs ) { weaken( $_[0]->{'prev_sibling'}); }
}

sub prev_sibling
{ my $elt= shift;
  my $cond= shift || return $elt->_prev_sibling;
  my $test_cond= ($cond_cache{$cond} ||= _install_cond( $cond));
  my $sibling= $elt->_prev_sibling;
  while( $sibling && !$test_cond->( $sibling) )
    { $sibling=
$sibling->_prev_sibling; }
  return $sibling;
}

sub set_next_sibling { $_[0]->{'next_sibling'}= $_[1]; }

sub next_sibling
{ my $elt= shift;
  my $cond= shift || return $elt->_next_sibling;

```

```

my $test_cond= ($cond_cache{$cond} ||= _install_cond( $cond));
my $sibling= $elt->_next_sibling;
while( $sibling && !$test_cond->( $sibling) )
    { $sibling= $sibling->_next_sibling; }
return $sibling;
}

# methods dealing with the class attribute, convenient if you work with xhtml
sub class { $_[0]->{att}->{class}; }
# lvalue version of class. separate from class to avoid problem like RT#
sub lclass
    :lvalue # > perl 5.5
    { $_[0]->{att}->{class}; }

sub set_class { my( $elt, $class)= @_; $elt->set_att( class => $class); }

# adds a class to an element
sub add_to_class
{ my( $elt, $new_class)= @_;
  return $elt unless $new_class;
  my $class= $elt->class;
  my %class= $class ? map { $_ => 1 } split /\s+/, $class : ();
  $class{$new_class}=
1;
  $elt->set_class( join( ' ', sort keys %class));
}

sub remove_class
{ my( $elt, $class_to_remove)= @_;
  return $elt unless $class_to_remove;
  my $class= $elt->class;
  my %class= $class ? map { $_ => 1 } split /\s+/, $class : ();
  delete $class{$class_to_remove};
  $elt->set_class( join( ' ', sort keys %class));
}

sub att_to_class { my( $elt, $att)= @_; $elt->set_class( $elt->att( $att)); }
sub add_att_to_class { my( $elt, $att)= @_; $elt->add_to_class( $elt->att( $att)); }
sub move_att_to_class { my( $elt, $att)= @_; $elt->add_to_class( $elt->att( $att));
    $elt->del_att( $att);
}

sub tag_to_class { my( $elt)= @_; $elt->set_class( $elt->tag); }
sub add_tag_to_class { my( $elt)= @_; $elt->add_to_class( $elt->tag); }
sub set_tag_class { my( $elt, $new_tag)= @_; $elt->add_tag_to_class; $elt->set_tag( $new_tag); }

sub tag_to_span
{ my( $elt)= @_;
  $elt->set_class( $elt->tag)
}

```



```

unless( $elt->tag eq 'span' && $elt->class); # set class to span unless it would mean replacing it with span
    $elt->set_tag( 'span');
}

sub tag_to_div
{ my( $elt)= @_;
    $elt->set_class( $elt->tag) unless( $elt->tag eq 'div' && $elt->class); # set class to div unless it would mean
replacing it with div
    $elt->set_tag( 'div');
}

sub in_class
{ my( $elt, $class)= @_;
    my $elt_class= $elt->class;
    return unless( defined $elt_class);
    return $elt->class=~ m/{(?:^|s)\Q$class\E(?:s|$)} ? $elt : 0;
}

# get or set all attributes
# argument can be a hash or a hashref
sub set_atts
{ my $elt= shift;
    my %atts;
    tie %atts, 'Tie::IxHash' if( keep_atts_order());
    %atts= @_ == 1 ? %{$_[0]} : @_;
    $elt->{att}= \%atts;
    if( exists $atts{$ID}) { $elt->_set_id( $atts{$ID}); }
    return $elt;
}

subatts { return $_[0]->{att}; }
sub att_names { return (sort keys %{$_[0]->{att}}); }
sub del_atts { $_[0]->{att}={}; return
    $_[0]; }

# get or set a single attribute (set works for several atts)
sub set_att
{ my $elt= shift;

    if( $_[0] && ref( $_[0]) && !$_[1])
        { croak "improper call to set_att, usage is $elt->set_att( att1 => 'val1', att2 => 'val2',...)" ; }

    unless( $elt->{att})
        { $elt->{att}={};
            tie %{$elt->{att}}, 'Tie::IxHash' if( keep_atts_order());
        }
}

```

```

while(@_)
{ my( $att, $val)= (shift, shift);
  $elt->{att}->{$att}= $val;
  if( $att eq $ID) { $elt->_set_id( $val); }
}
return $elt;
}

sub att { $_[0]->{att}->{$_[1]}; }
# lvalue version of att. separate from class to avoid problem like RT#
sub latt
    :lvalue # > perl 5.5
{ $_[0]->{att}->{$_[1]}; }

sub del_att
{ my $elt= shift;
  while( @_ ) { delete $elt->'att'->{shift()}; }
  return $elt;
}

sub att_exists { return exists $_[0]->{att}->{$_[1]}; }

# delete an attribute from all descendants of an element
sub strip_att
{ my( $elt, $att)=
  @_;
  $elt->del_att( $att) foreach ($elt->descendants_or_self( qq{*[\@$att]}));
  return $elt;
}

sub change_att_name
{ my( $elt, $old_name, $new_name)= @_;
  my $value= $elt->att( $old_name);
  return $elt unless( defined $value);
  $elt->del_att( $old_name)
    ->set_att( $new_name => $value);
  return $elt;
}

sub lc_attnames
{ my $elt= shift;
  foreach my $att ($elt->att_names)
  { if( $att ne lc $att) { $elt->change_att_name( $att, lc $att); } }
  return $elt;
}

sub set_twig_current { $_[0]->{twig_current}=1; }
sub del_twig_current { delete $_[0]->{twig_current}; }

```

```

# get or set the id attribute
sub set_id
{ my( $elt, $id)= @_ ;
  $elt->del_id() if( exists $elt->{att}->{$ID});
  $elt->set_att($ID, $id);
  $elt->_set_id( $id);
  return $elt;
}

# only set id, does not update the attribute value
sub _set_id
{ my( $elt, $id)= @_ ;
  my $t= $elt->twig || $elt;
  $t->{twig_id_list}->{$id}= $elt;
  if( $XML::Twig::weakrefs) { weaken(
    $t->{twig_id_list}->{$id}); }
  return $elt;
}

sub id { return $_[0]->{att}->{$ID}; }

# methods used to add ids to elements that don't have one
BEGIN
{ my $id_nb  = "0001";
  my $id_seed = "twig_id_";

  sub set_id_seed ## no critic (Subroutines::ProhibitNestedSubs);
  { $id_seed= $_[1]; $id_nb=1; }

  sub add_id ## no critic (Subroutines::ProhibitNestedSubs);
  { my $elt= shift;
    if( defined $elt->id)
      { return $elt->id; }
    else
      { my $id= $_[0] && ref( $_[0]) && isa( $_[0], 'CODE') ? $_[0]->( $elt) : $id_seed . $id_nb++;
        $elt->set_id( $id);
        return $id;
      }
    }
}

# delete the id attribute and remove the element from the id list
sub del_id
{ my $elt= shift;

```

```

if( ! exists $elt->{att}->{$ID}) { return $elt };
my $id= $elt->{att}->{$ID};

delete $elt->{att}->{$ID};

my $t= shift || $elt->twig;
unless( $t) { return $elt; }
if( exists $t->{twig_id_list}->{$id}) { delete $t->{twig_id_list}->{$id};
}

return $elt;
}

# return the list of children
sub children
{ my $elt= shift;
  my @children;
  my $child= $elt->first_child( @_);
  while( $child)
  { push @children, $child;
    $child= $child->next_sibling( @_);
  }
  return @children;
}

sub _children
{ my $elt= shift;
  my @children=();
  my $child= $elt->_first_child();
  while( $child)
  { push @children, $child;
    $child= $child->_next_sibling;
  }
  return @children;
}

sub children_copy
{ my $elt= shift;
  my @children;
  my $child= $elt->first_child( @_);
  while( $child)
  { push @children, $child->copy;
    $child= $child->next_sibling( @_);
  }
  return @children;
}

```

```

sub children_count
{ my $elt= shift;
  my $cond= shift;
  my $count=0;
  my $child= $elt->_first_child;
  while( $child)
  { $count++ if( $child->passes( $cond));
    $child= $child->_next_sibling;
  }
  return $count;
}

sub children_text
{ my $elt= shift;
  return wantarray() ? map { $_->text} $elt->children( @_ )
    : join( " ", map { $_->text} $elt->children( @_ ) )
    ;
}

sub children_trimmed_text
{ my $elt= shift;
  return wantarray() ? map { $_->trimmed_text} $elt->children( @_ )
    : join( " ", map { $_->trimmed_text} $elt->children( @_ ) )
    ;
}

sub all_children_are
{ my( $parent, $cond)= @_ ;
  foreach my $child ( $parent->_children )
  { return 0 unless( $child->passes( $cond)); }
  return $parent;
}

sub ancestors
{ my( $elt, $cond)= @_ ;
  my @ancestors;
  while( $elt->_parent)
  { $elt= $elt->_parent;
    push @ancestors, $elt if( $elt->passes( $cond));
  }
  return @ancestors;
}

sub ancestors_or_self
{ my( $elt, $cond)= @_ ;
  my @ancestors;
  while( $elt)

```

```

    { push @ancestors, $elt if( $elt->passes( $cond));
      $elt= $elt->_parent;
    }
  return @ancestors;
}

```

```

sub
_ancestors
{ my( $elt, $include_self)= @_;
  my @ancestors= $include_self ? ($elt) : ();
  while( $elt= $elt->_parent) { push @ancestors, $elt; }
  return @ancestors;
}

```

```

sub inherit_att
{ my $elt= shift;
  my $att= shift;
  my %tags= map { ($_, 1) } @_;

  do
    { if( (defined $elt->att( $att))
      && ( !%tags || $tags{$elt->gi}))
      )
      { return $elt->att( $att); }
    } while( $elt= $elt->_parent);
  return undef;
}

```

```

sub _inherit_att_through_cut
{ my $elt= shift;
  my $att= shift;
  my %tags= map { ($_, 1) } @_;

  do
    { if( (defined $elt->att( $att))
      && ( !%tags || $tags{$elt->gi}))
      )
      { return $elt->att( $att); }
    } while( $elt= $elt->_parent || $elt->former_parent);
  return undef;
}

```

```

sub current_ns_prefixes
{ my $elt= shift;
  my %prefix;

```

```

$prefix{"}=1 if( $elt->namespace( ""));
while( $elt)
{ my @ns= grep { !m{^xml} } map { m{^([:.]+):} } ($elt->gi, $elt->att_names);
  $prefix{$_}=1 foreach (@ns);
  $elt= $elt->_parent;
}

return (sort keys %prefix);
}

# kinda counter-intuitive actually:
# the next element is found by looking for the next open tag after from the
# current one, which is the first child, if it exists, or the next sibling
# or the first next sibling of an ancestor
# optional arguments are:
# - $subtree_root: a reference to an element, when the next element is not
#                   within $subtree_root anymore then next_elt returns undef
# - $cond: a condition, next_elt returns the next element matching the condition

sub next_elt
{ my $elt= shift;
  my $subtree_root= 0;
  $subtree_root= shift if( ref( $_[0]) && isa( $_[0], 'XML::Twig::Elt'));
  my $cond= shift;
  my $next_elt;

  my $ind;                                # optimization
  my $test_cond;
  if( $cond)                              # optimization
  { unless( defined( $ind= $XML::Twig::gi2index{$cond})) )      # optimization
    { $test_cond= ($cond_cache{$cond} ||= _install_cond( $cond)); } # optimization
  }                                       # optimization

  do
  { if( $next_elt= $elt->_first_child)
    { # simplest case: the elt has a child
    }
    elsif( $next_elt= $elt->_next_sibling)
    { # no child but a next sibling (just check we stay within the subtree)

      # case where elt is subtree_root, is empty and has a sibling
      return undef if( $subtree_root && ($elt == $subtree_root));

    }
  }
  else
  { # case where the element has no child and no next sibling:
    # get the first next sibling of an ancestor, checking subtree_root

```

```

        # case where elt is subtree_root, is empty and has no sibling
        return undef if( $subtree_root &&
($elt == $subtree_root));

        $next_elt= $elt->_parent || return undef;

        until( $next_elt->_next_sibling)
        { return undef if( $subtree_root && ($subtree_root == $next_elt));
          $next_elt= $next_elt->_parent || return undef;
        }
        return undef if( $subtree_root && ($subtree_root == $next_elt));
        $next_elt= $next_elt->_next_sibling;
    }
    $elt= $next_elt;          # just in case we need to loop
} until(  ! defined $elt
        || ! defined $cond
        || (defined $ind    && ($elt->{gi} eq $ind)) # optimization
        || (defined $test_cond && ($test_cond->($elt)))
        );

return $elt;
}

```

```

# return the next_elt within the element
# just call next_elt with the element as first and second argument
sub first_descendant { return $_[0]->next_elt( @_); }

```

```

# get the last descendant, # then return the element found or call prev_elt
with the condition
sub last_descendant
{ my( $elt, $cond)= @_;
  my $last_descendant= $elt->_last_descendant;
  if( !$cond || $last_descendant->matches( $cond))
  { return $last_descendant; }
  else
  { return $last_descendant->prev_elt( $elt, $cond); }
}

```

```

# no argument allowed here, just go down the last_child recursively
sub _last_descendant
{ my $elt= shift;
  while( my $child= $elt->_last_child) { $elt= $child; }
  return $elt;
}

```

```

# counter-intuitive too:
# the previous element is found by looking
# for the first open tag backwards from the current one

```



```

# it's the last descendant of the previous sibling
# if it exists, otherwise it's simply the parent
sub prev_elt
{ my $elt= shift;
  my $subtree_root= 0;
  if( defined $_[0] and (ref( $_[0]) && isa( $_[0], 'XML::Twig::Elt')) )
  { $subtree_root= shift ;
    return undef if( $elt == $subtree_root);
  }
  my $cond= shift;
  # get prev elt
  my $prev_elt;
  do
  { return undef
  if( $elt == $subtree_root);
    if( $prev_elt= $elt->_prev_sibling)
    { while( $prev_elt->_last_child)
      { $prev_elt= $prev_elt->_last_child; }
    }
    else
    { $prev_elt= $elt->_parent || return undef; }
    $elt= $prev_elt;    # in case we need to loop
  } until( $elt->passes( $cond));

  return $elt;
}

sub _following_elt
{ my( $elt)= @_ ;
  while( $elt && !$elt->next_sibling)
  { $elt= $elt->parent; }
  return $elt ? $elt->next_sibling : undef;
}

sub following_elt
{ my( $elt, $cond)= @_ ;
  $elt= $elt->_following_elt || return undef;
  return $elt if( !$cond || $elt->matches( $cond));
  return $elt->next_elt( $cond);
}

sub following_elts
{ my( $elt, $cond)= @_ ;
  if( !$cond) { undef $cond; }
  my $following= $elt->following_elt( $cond);
  if( $following)
  { my @followings= $following;
    while( $following= $following->next_elt( $cond))

```

```

        { push @followings, $following; }

return( @followings);
    }
else
    { return (); }
}

sub _preceding_elt
{ my( $elt)= @_;
  while( $elt && !$elt->_prev_sibling)
    { $elt= $elt->parent; }
  return $elt ? $elt->_prev_sibling->_last_descendant : undef;
}

sub preceding_elt
{ my( $elt, $cond)= @_;
  $elt= $elt->_preceding_elt || return undef;
  return $elt if( !$cond || $elt->matches( $cond));
  return $elt->prev_elt( $cond);
}

sub preceding_elts
{ my( $elt, $cond)= @_;
  if( !$cond) { undef $cond; }
  my $preceding= $elt->preceding_elt( $cond);
  if( $preceding)
    { my @precedings= $preceding;
      while( $preceding= $preceding->prev_elt( $cond))
        { push @precedings, $preceding; }
      return( @precedings);
    }
  else
    { return (); }
}

# used in get_xpath
sub _self
{ my( $elt, $cond)= @_;
  return $cond ? $elt->matches( $cond) : $elt;
}

sub next_n_elt
{ my $elt= shift;
  my $offset= shift || return undef;
  foreach (1..$offset)

```

```

    { $elt= $elt->next_elt( @_ ) || return undef; }
    return $elt;
}

# checks whether $elt is included in $ancestor, returns 1 in that case
sub in
{ my ($elt, $ancestor)= @_;
  if( ref( $ancestor ) && isa( $ancestor, 'XML::Twig::Elt' ) )
    { # element
      while( $elt= $elt->_parent ) { return $elt if( $elt == $ancestor ); }
    }
  else
    { # condition
      while( $elt= $elt->_parent ) { return $elt if( $elt->matches( $ancestor ); }
    }
  return 0;
}

sub first_child_text
{ my $elt= shift;
  my $dest=$elt->first_child(@_) or return "";
  return $dest->text;
}

sub fields
{ my $elt= shift;
  return map { $elt->field( $_ ) } @_;
}

sub first_child_trimmed_text
{ my $elt= shift;
  my $dest=$elt->first_child(@_) or return "";
  return $dest->trimmed_text;
}

sub first_child_matches
{ my $elt= shift;
  my $dest= $elt->_first_child or return undef;
  return $dest->passes( @_ );
}

sub last_child_text
{ my $elt=
  shift;
  my $dest=$elt->last_child(@_) or return "";
  return $dest->text;
}

```

```

sub last_child_trimmed_text
{ my $elt= shift;
  my $dest=$elt->last_child(@_) or return "";
  return $dest->trimmed_text;
}

sub last_child_matches
{ my $elt= shift;
  my $dest= $elt->_last_child or return undef;
  return $dest->passes( @_);
}

sub child_text
{ my $elt= shift;
  my $dest=$elt->child(@_) or return "";
  return $dest->text;
}

sub child_trimmed_text
{ my $elt= shift;
  my $dest=$elt->child(@_) or return "";
  return $dest->trimmed_text;
}

sub child_matches
{ my $elt= shift;
  my $nb= shift;
  my $dest= $elt->child( $nb) or return undef;
  return $dest->passes( @_);
}

sub prev_sibling_text
{ my $elt= shift;
  my $dest= $elt->_prev_sibling(@_) or return "";
  return $dest->text;
}

sub prev_sibling_trimmed_text
{ my $elt= shift;
  my $dest= $elt->_prev_sibling(@_) or return "";
  return $dest->trimmed_text;
}

sub prev_sibling_matches
{ my $elt= shift;
  my $dest= $elt->_prev_sibling or return undef;
  return $dest->passes( @_);
}

```

```

sub next_sibling_text
{ my $elt= shift;
  my $dest= $elt->next_sibling(@_) or return "";
  return $dest->text;
}

```

```

sub next_sibling_trimmed_text
{ my $elt= shift;
  my $dest= $elt->next_sibling(@_) or return "";
  return $dest->trimmed_text;
}

```

```

sub next_sibling_matches
{ my $elt= shift;
  my $dest= $elt->_next_sibling or return undef;
  return $dest->passes( @_);
}

```

```

sub prev_elt_text
{ my $elt= shift;
  my $dest= $elt->prev_elt(@_) or return "";
  return $dest->text;
}

```

```

sub prev_elt_trimmed_text
{ my $elt= shift;
  my $dest= $elt->prev_elt(@_) or return "";
  return $dest->trimmed_text;
}

```

```

sub prev_elt_matches
{ my $elt= shift;
  my $dest= $elt->prev_elt or return undef;
  return $dest->passes( @_);
}

```

```

sub next_elt_text
{ my $elt= shift;
  my $dest= $elt->next_elt(@_) or return "";
  return $dest->text;
}

```

```

sub next_elt_trimmed_text
{ my $elt= shift;
  my $dest= $elt->next_elt(@_) or return "";
  return $dest->trimmed_text;
}

```

```

sub next_elt_matches
{ my $elt= shift;
  my $dest= $elt->next_elt or return undef;
  return $dest->passes( @_);
}

sub parent_text
{ my $elt= shift;
  my $dest= $elt->parent(@_) or return "";
  return $dest->text;
}

sub parent_trimmed_text
{ my $elt= shift;
  my $dest= $elt->parent(@_) or return "";
  return $dest->trimmed_text;
}

sub parent_matches
{ my $elt= shift;
  my $dest= $elt->_parent or return undef;
  return $dest->passes( @_);
}

sub is_first_child
{ my $elt= shift;
  my $parent= $elt->parent or return 0;
  my $first_child= $parent->first_child( @_) or return 0;
  return ($first_child == $elt) ? $elt : 0;
}

sub is_last_child
{ my $elt= shift;
  my $parent= $elt->parent or return 0;
  my $last_child= $parent->last_child( @_) or return 0;
  return ($last_child
== $elt) ? $elt : 0;
}

# returns the depth level of the element
# if 2 parameter are used then counts the 2cd element name in the
# ancestors list
sub level
{ my( $elt, $cond)= @_;
  my $level=0;
  my $name=shift || "";
  while( $elt= $elt->_parent) { $level++ if( !$cond || $elt->matches( $cond)); }
}

```

```

    return $level;
}

# checks whether $elt has an ancestor that satisfies $cond, returns the ancestor
sub in_context
{ my ($elt, $cond, $level)= @_;
  $level= -1 unless( $level) ; # $level-- will never hit 0

  while( $level)
  { $elt= $elt->_parent or return 0;
    if( $elt->matches( $cond)) { return $elt; }
    $level--;
  }
  return 0;
}

sub _descendants
{ my( $subtree_root, $include_self)= @_;
  my @descendants= $include_self ? ($subtree_root) : ();

  my $elt= $subtree_root;
  my $next_elt;

  MAIN: while( 1)
  { if( $next_elt= $elt->_first_child)
    { # simplest case: the elt has a child

    }
    elsif( $next_elt= $elt->_next_sibling)
    { # no child but a next sibling (just check we stay within the subtree)

      # case where elt is subtree_root, is empty and has a sibling
      last MAIN if( $elt == $subtree_root);
    }
    else
    { # case where the element has no child and no next sibling:
      # get the first next sibling of an ancestor, checking subtree_root

      # case where elt is subtree_root, is empty and has no sibling
      last MAIN if( $elt == $subtree_root);

      # backtrack until we find a parent with a next sibling
      $next_elt= $elt->_parent || last;
      until( $next_elt->_next_sibling)
      { last MAIN if( $subtree_root == $next_elt);
        $next_elt= $next_elt->_parent || last MAIN;
      }
      last MAIN if( $subtree_root == $next_elt);
    }
  }
}

```

```

    $next_elt= $next_elt->_next_sibling;

    }
    $elt= $next_elt || last MAIN;
    push @descendants, $elt;
    }
    return @descendants;
}

sub descendants
{ my( $subtree_root, $cond)= @_ ;
  my @descendants=();
  my $elt= $subtree_root;

  # this branch is pure optimization for speed: if $cond is a gi replace it
  # by the index of the gi and loop here
  # start optimization
  my $ind;
  if( !$cond || ( defined ( $ind= $XML::Twig::gi2index{$cond})) )
  {
    my $next_elt;

    while( 1)
    { if( $next_elt= $elt->_first_child)
      { # simplest case: the elt has a child
      }
      elsif( $next_elt= $elt->_next_sibling)
      { # no child but a next sibling (just check we stay within the subtree)

        # case where elt is subtree_root, is empty and has a sibling
        last if( $subtree_root && ($elt == $subtree_root));
      }
      else
      { # case where the element
has no child and no next sibling:
        # get the first next sibling of an ancestor, checking subtree_root

        # case where elt is subtree_root, is empty and has no sibling
        last if( $subtree_root && ($elt == $subtree_root));

        # backtrack until we find a parent with a next sibling
        $next_elt= $elt->_parent || last undef;
        until( $next_elt->_next_sibling)
        { last if( $subtree_root && ($subtree_root == $next_elt));
          $next_elt= $next_elt->_parent || last;
        }
        last if( $subtree_root && ($subtree_root == $next_elt));
      }
    }
  }
}

```



```

        $next_elt= $next_elt->_next_sibling;
    }
    $elt= $next_elt || last;
    push @descendants, $elt if( !$cond || ($elt->{gi} eq $ind));
}
}
else
# end optimization
{ # branch for a complex condition: use the regular
(slow but simple) way
    while( $elt= $elt->next_elt( $subtree_root, $cond))
        { push @descendants, $elt; }
    }
return @descendants;
}

```

```

sub descendants_or_self
{ my( $elt, $cond)= @_;
  my @descendants= $elt->passes( $cond) ? ($elt) : ();
  push @descendants, $elt->descendants( $cond);
  return @descendants;
}

```

```

sub sibling
{ my $elt= shift;
  my $nb= shift;
  if( $nb > 0)
    { foreach( 1..$nb)
      { $elt= $elt->next_sibling( @_ ) or return undef; }
    }
  elsif( $nb < 0)
    { foreach( 1..(-$nb))
      { $elt= $elt->prev_sibling( @_ ) or return undef; }
    }
  else # $nb == 0
    { return $elt->passes( $_[0]); }
  return $elt;
}

```

```

sub sibling_text
{ my $elt= sibling( @_);
  return $elt ? $elt->text : undef;
}

```

```

sub child
{ my $elt= shift;

```

```

my $nb= shift;
if( $nb >= 0)
{ $elt= $elt->first_child( @_ ) or return undef;
  foreach( 1..$nb)
    { $elt= $elt->next_sibling( @_ ) or return
undef; }
  }
else
{ $elt= $elt->last_child( @_ ) or return undef;
  foreach( 2..(-$nb))
    { $elt= $elt->prev_sibling( @_ ) or return undef; }
  }
return $elt;
}

```

```

sub prev_siblings
{ my $elt= shift;
  my @siblings=();
  while( $elt= $elt->prev_sibling( @_ ))
    { unshift @siblings, $elt; }
  return @siblings;
}

```

```

sub siblings
{ my $elt= shift;
  return grep { $_ ne $elt } $elt->parent->children( @_ );
}

```

```

sub pos
{ my $elt= shift;
  return 0 if ($_[0] && !$elt->matches( @_ ));
  my $pos=1;
  $pos++ while( $elt= $elt->prev_sibling( @_ ));
  return $pos;
}

```

```

sub next_siblings
{ my $elt= shift;
  my @siblings=();
  while( $elt= $elt->next_sibling( @_ ))
    { push @siblings, $elt; }
  return @siblings;
}

```

used by get_xpath: parses the xpath expression and generates a sub that performs the
search

```

{ my %axis2method;
BEGIN { %axis2method= ( child      => 'children',
                        descendant
=> 'descendants',
                        'descendant-or-self' => 'descendants_or_self',
                        parent      => 'parent_is',
                        ancestor     => 'ancestors',
                        'ancestor-or-self' => 'ancestors_or_self',
                        'following-sibling' => 'next_siblings',
                        'preceding-sibling' => 'prev_siblings',
                        following     => 'following_elts',
                        preceding     => 'preceding_elts',
                        self          => '_self',
                        );
}

sub _install_xpath
{ my( $xpath_exp, $type)= @_ ;
  my $original_exp= $xpath_exp;
  my $sub= 'my $elt= shift; my @results;';

  # grab the root if expression starts with a /
  if( $xpath_exp=~ s{^/}{})
    { $sub .= '@results= ($elt->twig) || croak "cannot use an XPath query starting with a / on a node not attached
to a whole twig";' }
  elsif( $xpath_exp=~ s{^\.}{})
    { $sub .= '@results= ($elt);' }
  else
    { $sub .= '@results= ($elt);' }

  #warn "xpath_exp= '$xpath_exp'\n";

  while( $xpath_exp &&
    $xpath_exp=~s{^\/s*(/?)}
      # the xxx=~//regex/ is a pain as it includes /
      (\s*(?:?:(?($REG_AXIS)::)?(\*|$REG_TAG_PART|\.|\.|\.|s*)?($REG_PREDICATE_ALT*))
      )
      (\/|$)}{ }xo)

    { my( $wildcard, $sub_exp, $axis, $gi, $predicates)= ($1, $2, $3, $4, $5);
      if( $axis && ! $gi)
        { _croak_and_doublecheck_xpath( $original_exp, "error in xpath expression $original_exp"); }

      # grab a parent
      if( $sub_exp eq '..')
        { _croak_and_doublecheck_xpath( $original_exp, "error in xpath expression $original_exp") if( $wildcard);
          $sub .= '@results= map { $_->parent} @results;';
        }
      }
}

```

```

    }
    # test the element itself
    elseif( $sub_exp=~ m{^\.(\.*)$}s)
    { $sub .= "@results= grep { \$_->matches( q{$1} ) } \@results;" }
    # grab children
    else
    {
        if( !$axis)
        { $axis= $wildcard ? 'descendant' : 'child'; }
        if( !$gi or $gi eq '*') { $gi=""; }
        my $function;

        # "special" predicates, that return just one element
        if( $predicates && ($predicates =~ m{^\\s*[\\s*((-\\s*)?\\d+)\\s*\\]s*$}))
        { # [<nb>]
            my $offset= $1;
            $offset-- if( $offset > 0);
            $function= $axis eq 'descendant' ? "next_n_elt( $offset, '$gi'"
                : $axis eq 'child' ? "child( $offset, '$gi'"
                :
                _croak_and_doublecheck_xpath( $original_exp, "error [$1] not supported along
axis '$axis'" )

            ;
            $sub .= "@results= grep { \$_ } map { \$_->$function } \@results;"
        }
        elseif( $predicates && ($predicates =~ m{^\\s*[\\s*last\\s*(\\s*\\)\\s*\\]s*$}))
        { # last()
            _croak_and_doublecheck_xpath( $original_exp, "error in xpath expression $original_exp, usage of // and
last() not supported") if( $wildcard);
            $sub .= "@results= map { \$_->last_child( '$gi' ) } \@results;";
        }
        else
        { # follow the axis
            #warn "axis: '$axis' - method: '$axis2method{$axis}' - gi: '$gi\\n'";

            my $follow_axis= " \$_->$axis2method{$axis}( '$gi' )";
            my $step= $follow_axis;

            # now filter using the predicate
            while( $predicates=~ s{^\\s*($REG_PREDICATE_ALT)s*}{ }o)
            { my $pred= $1;
                $pred=~ s{^\\s*[\\s*]{ } };

                $pred=~ s{\\s*\\]s*$}{ } ;
                my $test="";
                my $pos;
                if( $pred=~ m{^(?!\\s*\\d+)$})
                { my $pos= $1;

```

```

if( $step=~ m{^s*grep(.*) (\$_->w+(\s*'['^']*'\s*))})
{ $step= "XML::Twig::_first_n $1 $pos, $2"; }
else
{ if( $pos > 0) { $pos--; }
  $step= "($step)[$pos]";
}
#warn "number predicate '$pos' - generated step '$step'\n";
}
else
{ my $syntax_error=0;
  do
  { if( $pred =~ s{^string\s*\s*=\s*($REG_STRING)\s*}{o} # string()="string" pred
    { $test .= "\$_->text eq $1"; }
    elsif( $pred =~ s{^string\s*\s*!=\s*($REG_STRING)\s*}{o}
# string()!="string" pred
    { $test .= "\$_->text ne $1"; }
    if( $pred =~ s{^string\s*\s*=\s*($REG_NUMBER)\s*}{o} # string()=<number> pred
    { $test .= "\$_->text eq $1"; }
    elsif( $pred =~ s{^string\s*\s*!=\s*($REG_NUMBER)\s*}{o} # string()!=<number> pred
    { $test .= "\$_->text ne $1"; }
    elsif( $pred =~ s{^string\s*\s*>|<|=|<=\s*($REG_NUMBER)\s*}{o} #
string()=<number> pred
    { $test .= "\$_->text $1 $2"; }

    elsif( $pred =~ s{^string\s*\s*($REG_MATCH)\s*($REG_REGEXP)\s*}{o} #
string()=~/regex/ pred
    { my( $match, $regexp)= ($1, $2);
      $test .= "\$_->text $match $regexp";
    }
    elsif( $pred =~ s{^string\s*\s*}{o}
# string() pred
    { $test .= "\$_->text"; }
    elsif( $pred=~
s{^@($REG_TAG_NAME)\s*($REG_OP)\s*($REG_STRING|REG_NUMBER)}{o} # @att="val" pred
    { my( $att, $oper, $val)= ($1, _op( $2), $3);
      $test .= qq{((defined \$_->att("$att")) && (\$_->att( "$att") $oper $val))};
    }
    elsif( $pred =~ s{^@($REG_TAG_NAME)\s*($REG_MATCH)\s*($REG_REGEXP)\s*}{o} #
@att=~/regex/ pred XXX
    { my( $att, $match, $regexp)= ($1, $2, $3);
      $test .= qq{((defined \$_->att("$att")) && (\$_->att("$att") $match $regexp))};
    }
    elsif( $pred=~ s{^@($REG_TAG_NAME)\s*}{o} # @att pred
    { $test .= qq{(defined \$_->att("$1"))}; }

    elsif( $pred=~ s{^s*(?:not!)\s*@($REG_TAG_NAME)\s*}{o} # not @att pred
    { $test .= qq{((\$_->is_elt) && (not defined \$_->att("$1")))}; }
    elsif( $pred=~ s{^s*([!])}{o} # ( or ) (just add to the test)

```

```

        { $test .= qq{$1};      }
elseif( $pred=~ s{^\\s*(and|or)\\s*}{})
    { $test .= lc " $1 "; }
else
    { $syntax_error=1; }

    } while( !$syntax_error && $pred);
    _croak_and_doublecheck_xpath( $original_exp, "error in xpath expression $original_exp at $pred")
if( $pred);
    $step= " grep { $test } $step ";
    }
    }
    #warn "step: '$step'";
    $sub .= "\\@results=
grep defined, map { $step } \\@results;";
    }
    }
    }

if( $xpath_exp)
    { _croak_and_doublecheck_xpath( $original_exp, "error in xpath expression $original_exp around
$xpath_exp"); }

$sub .= q{return XML::Twig::_unique_elts( @results); };
#warn "generated: '$sub'\n";
my $s= eval "sub { $NO_WARNINGS; $sub }";
if( $@)
    { _croak_and_doublecheck_xpath( $original_exp, "error in xpath expression $original_exp ($@);" ) }
return( $s);
}
}

sub _croak_and_doublecheck_xpath
{ my $xpath_expression= shift;
  my $mess= join( "\n", @_);
  if( $XML::Twig::XPath::VERSION || 0)
  { my $check_twig= XML::Twig::XPath->new;
    if( eval { $check_twig->{twig_xp}->_parse( $xpath_expression) })
    { $mess .= "\nthe expression is a valid XPath statement, and you are using XML::Twig::XPath, but"
      . "\nyou are using either 'find_nodes' or 'get_xpath' where the method you likely
wanted"
      . "\nto use is 'findnodes', which is the only one that uses the full XPath engine\n";
    }
  }
  croak $mess;
}

```

```

{ # extremely elaborate caching mechanism
my %xpath; # xpath_expression => subroutine_code;
sub get_xpath
{ my( $elt, $xpath_exp, $offset)= @_;
  my $sub= ($xpath{$xpath_exp} ||= _install_xpath( $xpath_exp));
  return $sub->( $elt) unless( defined $offset);
  my @res= $sub->( $elt);
  return $res[$offset];
}
}

sub findvalues
{ my $elt= shift;
  return map { $_->text } $elt->get_xpath( @_);
}

sub findvalue
{ my $elt= shift;
  return join ", map { $_->text } $elt->get_xpath( @_);
}

# XML::XPath compatibility
sub getElementById { return $_[0]->twig->elt_id( $_[1]); }
sub getChildNodes { my @children= $_[0]->_children; return wantarray ? @children : \@children; }

sub _flushed { return $_[0]->{flushed}; }
sub _set_flushed { $_[0]->{flushed}=1; }
sub
_del_flushed { delete $_[0]->{flushed}; }

sub cut
{ my $elt= shift;
  my( $parent, $prev_sibling, $next_sibling);
  $parent= $elt->_parent;
  if( ! $parent && $elt->is_elt)
  { # are we cutting the root?
    my $t= $elt->{twig};
    if( $t && ! $t->{twig_parsing})
    { delete $t->{twig_root};
      delete $elt->{twig};
      return $elt;
    } # cutt`ing the root
  }
  else
  { return; } # cutting an orphan, returning $elt would break backward compatibility
}

```

```

# save the old links, that'll make it easier for some loops
foreach my $link ( qw(parent prev_sibling next_sibling) )
{ $elt->{former}->{$link}= $elt->{$link};
  if( $XML::Twig::weakrefs ) { weaken( $elt->{former}->{$link}); }
}

# if we cut the current element then its parent becomes the current elt
if( $elt->{twig_current})
{ my $twig_current= $elt->_parent;
  $elt->twig->{twig_current}= $twig_current;
  $twig_current->set_twig_current;
  $elt->del_twig_current;
}

if( $parent->_first_child && $parent->_first_child == $elt)
{ $parent->set_first_child( $elt->_next_sibling);
  # cutting can make the parent empty
  if( ! $parent->_first_child ) { $parent->set_empty( 1); }
}

if( $parent->_last_child && $parent->_last_child == $elt)
{ $parent->set_last_child( $elt->_prev_sibling);
}

if( $prev_sibling= $elt->_prev_sibling)
{ $prev_sibling->set_next_sibling( $elt->_next_sibling); }
if( $next_sibling= $elt->_next_sibling)
{ $next_sibling->set_prev_sibling( $elt->_prev_sibling); }

$elt->set_parent( undef);
$elt->set_prev_sibling( undef);
$elt->set_next_sibling( undef);

# merge 2 (now) consecutive text nodes if they are of the same type
# (type can be PCDATA or CDATA)
if( $prev_sibling && $next_sibling && $prev_sibling->is_text && ( $prev_sibling->gi eq $next_sibling->gi))
{ $prev_sibling->merge_text(
$next_sibling); }

return $elt;
}

sub former_next_sibling { return $_[0]->{former}->{next_sibling}; }
sub former_prev_sibling { return $_[0]->{former}->{prev_sibling}; }
sub former_parent      { return $_[0]->{former}->{parent};      }

```



```

sub cut_children
{ my( $elt, $exp)= @_ ;
  my @children= $elt->children( $exp);
  foreach (@children) { $_->cut; }
  if( ! $elt->has_children) { $elt->set_empty( 1); }
  return @children;
}

```

```

sub cut_descendants
{ my( $elt, $exp)= @_ ;
  my @descendants= $elt->descendants( $exp);
  foreach ($elt->descendants( $exp)) { $_->cut; }
  if( ! $elt->has_children) { $elt->set_empty( 1); }
  return @descendants;
}

```

```

sub erase
{ my $elt= shift;
  #you cannot erase the current element
  if( $elt->{twig_current})
    { croak "trying to erase an element before it has been completely parsed"; }
  if( my $parent= $elt->_parent)
    { # normal case
      $elt->_move_extra_data_after_erase;
      my @children= $elt->_children;
      if( @children)
        {
          # elt has children, move them up

          # the first child may need to be merged with a previous text
          my $first_child= shift @children;
          $first_child->move( before => $elt);
          my $prev= $first_child->prev_sibling;
          if( $prev && $prev->is_text && ($first_child->gi eq $prev->gi) )
            { $prev->merge_text( $first_child); }

          # move the rest of the children
          foreach my $child (@children)
            { $child->move( before => $elt); }

          # now the elt had no child, delete it
          $elt->delete;

          # now see if we need to merge the last child with the next element
          my $last_child= $children[-1] || $first_child; # if no last child, then it's also the first child
          my $next= $last_child->next_sibling;

```

```

        if( $next && $next->is_text && ($last_child->gi eq $next->gi) )
        { $last_child->merge_text(
$next); }

        # if parsing and have now a PCDATA text, mark so we can normalize later on if need be
        if( $parent->{twig_current} && $last_child->is_text) { $parent->{twig_to_be_normalized}=1; }
    }
    else
    { # no children, just cut the elt
        $elt->delete;
    }
}
else
{ # trying to erase the root (of a twig or of a cut/new element)
    my @children= $elt->_children;
    unless( @children == 1)
    { croak "can only erase an element with no parent if it has a single child"; }
    $elt->_move_extra_data_after_erase;
    my $child= shift @children;
    $child->set_parent( undef);
    my $twig= $elt->twig;
    $twig->set_root( $child);
}

return $elt;

}

sub _move_extra_data_after_erase
{ my( $elt)= @_;
    # extra_data
    if( my $extra_data= $elt->{extra_data})
    { my $target= $elt->_first_child || $elt->_next_sibling;
        if( $target)

        {
            if( $target->is( $ELT))
            { $target->set_extra_data( $extra_data . ($target->extra_data || "")); }
            elsif( $target->is( $TEXT))
            { $target->_unshift_extra_data_in_pcddata( $extra_data, 0); } # TO CHECK
        }
        else
        { my $parent= $elt->parent; # always exists or the erase cannot be performed
            $parent->_prefix_extra_data_before_end_tag( $extra_data);
        }
    }

    # extra_data_before_end_tag

```

```

if( my $extra_data= $elt->_extra_data_before_end_tag)
{ if( my $target= $elt->_next_sibling)
  { if( $target->is( $ELT))
    { $target->set_extra_data( $extra_data . ($target->extra_data || "")); }
    elsif( $target->is( $TEXT))
    {
      $target->_unshift_extra_data_in_pcddata( $extra_data, 0);
    }
  }
}
elsif( my $parent= $elt->parent)
{ $parent->_prefix_extra_data_before_end_tag( $extra_data); }

}

return $elt;

}
BEGIN
{ my %method= ( before    => \&paste_before,
               after     => \&paste_after,
               first_child => \&paste_first_child,
               last_child  => \&paste_last_child,
               within     => \&paste_within,
               );

# paste elt somewhere around ref
# pos can be first_child (default), last_child, before, after or within
sub paste ## no critic (Subroutines::ProhibitNestedSubs);
{ my $elt= shift;
  if( $elt->_parent)
  { croak "cannot paste an element that belongs to a tree"; }
  my $pos;
  my $ref;
  if( ref $_[0])
  { $pos= 'first_child';
    croak "wrong argument order in paste, should be $_[1] first" if($_[1]);
  }
  else
  { $pos= shift; }

  if( my $method= $method{$pos})
  {
    unless( ref( $_[0]) && isa( $_[0], 'XML::Twig::Elt'))
    { if( ! defined( $_[0]))
      { croak "missing target in paste"; }
      elsif( ! ref( $_[0]))
      { croak "wrong target type in paste (not a reference), should be XML::Twig::Elt or a subclass"; }
    }
  }
}

```

```

    else
    { my $ref= ref $_[0];
      croak "wrong target type in paste: '$ref', should be XML::Twig::Elt or a subclass";
    }
  }
  $ref= $_[0];
  # check here so error message lists the caller file/line
  if( !$ref->_parent && ($pos=~ m{^(before|after)$}) && !$elt->is_pi && !$elt->is_comment)
  { croak "cannot paste $1 root"; }
  $elt->$method( @_);
}
else
{ croak "tried to paste in wrong position '$pos', allowed positions " .
  " are 'first_child', 'last_child', 'before', 'after' and " .
  "'within'";
}
if( (my $ids= $elt->{twig_id_list}) && (my $t= $ref->twig) )
{ $t->{twig_id_list}||={};
  foreach my $id (keys %$ids)
  { $t->{twig_id_list}->{$id}= $ids->{$id};
    if( $XML::Twig::weakrefs) { weaken( $t->{twig_id_list}->{$id}); }
  }
}
return $elt;
}

```

```

sub paste_before
{ my( $elt, $ref)= @_;
  my( $parent, $prev_sibling, $next_sibling );

  # trying to paste before an orphan (root or detached wlt)
  unless( $ref->_parent)
  { if( my $t= $ref->twig)
    { if( $elt->is_comment || $elt->is_pi) # we can still do this
      { $t->_add_cpi_outside_of_root( leading_cpi => $elt); return; }
      else
      { croak "cannot paste before root"; }
    }
    else
    { croak "cannot paste before an orphan element"; }
  }
  $parent= $ref->_parent;
  $prev_sibling= $ref->_prev_sibling;
  $next_sibling= $ref;

  $elt->set_parent( $parent);
  if( $parent->_first_child

```

```

== $ref) { $parent->set_first_child( $elt); }

    if( $prev_sibling) { $prev_sibling->set_next_sibling( $elt); }
    $elt->set_prev_sibling( $prev_sibling);

    $next_sibling->set_prev_sibling( $elt);
    $elt->set_next_sibling( $ref);
    return $elt;
}

sub paste_after
{ my( $elt, $ref)= @_;
  my( $parent, $prev_sibling, $next_sibling );

  # trying to paste after an orphan (root or detached wlt)
  unless( $ref->_parent)
  { if( my $t= $ref->twig)
    { if( $elt->is_comment || $elt->is_pi) # we can still do this
      { $t->_add_cpi_outside_of_root( trailing_cpi => $elt); return; }
    else
      { croak "cannot paste after root"; }
    }
  else
    { croak "cannot paste after an orphan element"; }
  }
  $parent= $ref->_parent;
  $prev_sibling= $ref;
  $next_sibling= $ref->_next_sibling;

  $elt->set_parent( $parent);
  if( $parent->_last_child== $ref) { $parent->set_last_child( $elt); }

  $prev_sibling->set_next_sibling( $elt);
  $elt->set_prev_sibling( $prev_sibling);

  if( $next_sibling) { $next_sibling->set_prev_sibling( $elt); }
  $elt->set_next_sibling( $next_sibling);
  return $elt;
}

sub paste_first_child
{ my( $elt, $ref)= @_;
  my( $parent, $prev_sibling, $next_sibling );
  $parent= $ref;
  $next_sibling= $ref->_first_child;

  $elt->set_parent( $parent);

```

```

$parent->set_first_child( $elt);
unless( $parent->_last_child) { $parent->set_last_child( $elt); }

$elt->set_prev_sibling( undef);

if( $next_sibling) { $next_sibling->set_prev_sibling( $elt); }
$elt->set_next_sibling( $next_sibling);
return $elt;
}

sub paste_last_child
{ my( $elt, $ref)= @_;
  my( $parent, $prev_sibling, $next_sibling );

$parent= $ref;
$prev_sibling= $ref->_last_child;

$elt->set_parent( $parent);
$parent->set_last_child( $elt);
unless( $parent->_first_child) { $parent->set_first_child( $elt); }

$elt->set_prev_sibling( $prev_sibling);
if( $prev_sibling) { $prev_sibling->set_next_sibling( $elt); }

$elt->set_next_sibling( undef);
return $elt;
}

sub paste_within
{ my( $elt, $ref, $offset)= @_;
  my $text= $ref->is_text ? $ref : $ref->next_elt( $TEXT, $ref);
  my $new= $text->split_at( $offset);
  $elt->paste_before( $new);
  return $elt;
}
}

# load an element into a structure similar to XML::Simple's
sub simplify
{ my $elt= shift;

# normalize option names
my %options= @_;
%options= map { my ($key, $val)= ($_, $options{$_});
  $key=~ s{(\w)([A-Z])}{$1\_L$2}g;
  $key => $val
} keys %options;

```

```

# check options

my @allowed_options= qw( keyattr forcearray noattr content_key
                        var var_regexp variables var_attr
                        group_tags forcecontent
                        normalise_space normalize_space
                        );

my %allowed_options= map { $_ => 1 } @allowed_options;
foreach my $option (keys %options)
{ carp "invalid option $option\n" unless( $allowed_options{$option}); }

$options{normalise_space} ||= $options{normalize_space} || 0;

$options{content_key} ||= 'content';
if( $options{content_key} =~ m{^})
{ # need to remove the - and to activate extra folding
  $options{content_key} =~ s{^}-{};
  $options{extra_folding}= 1;
}
else
{ $options{extra_folding}= 0; }

$options{forcearray} ||=0;
if( isa( $options{forcearray}, 'ARRAY'))
{ my %forcearray_tags= map { $_ => 1 } @{$options{forcearray}};
  $options{forcearray_tags}= \%forcearray_tags;
  $options{forcearray}=
0;
}

$options{keyattr}    ||= ['name', 'key', 'id'];
if( ref $options{keyattr} eq 'ARRAY')
{ foreach my $keyattr (@{$options{keyattr}})
{ my( $prefix, $att)= ($keyattr =~ m{^([+-])?(.*)});
  $prefix ||= "";
  $options{key_for_all}->{$att}= 1;
  $options{remove_key_for_all}->{$att}=1 unless( $prefix eq '+');
  $options{prefix_key_for_all}->{$att}=1 if( $prefix eq '-');
}
}
elseif( ref $options{keyattr} eq 'HASH')
{ while( my( $elt, $keyattr)= each %{$options{keyattr}})
{ my( $prefix, $att)= ($keyattr =~ m{^([+-])?(.*)});
  $prefix ||= "";
  $options{key_for_elt}->{$elt}= $att;
  $options{remove_key_for_elt}->{"$elt#$att"}=1 unless( $prefix);
  $options{prefix_key_for_elt}->{"$elt#$att"}=1 if( $prefix eq '-');
}
}

```

```

}

$options{var}||= $options{var_attr}; # for compat with XML::Simple
if( $options{var})
{ $options{var_values}= {}; }
else      { $options{var}="";      }

if( $options{variables})
{ $options{var}||= 1;
  $options{var_values}= $options{variables};
}

if( $options{var_regexp} and !$options{var})
{ warn "var option not used, var_regexp option ignored\n"; }
$options{var_regexp} ||= "\${?(\\w+)}?";

$self->_simplify( \%options);

}

sub _simplify
{ my( $self, $options)= @_ ;

  my $data;

  my $gi= $self->gi;
  my @children= $self->_children;
  my %atts= $options->{noattr} || !$self->atts ? () : %{$self->atts};
  my $nb_atts= keys %atts;
  my $nb_children= $self->children_count + $nb_atts;

  my %nb_children;
  foreach (@children) { $nb_children{$_->tag}++; }
  foreach (keys %atts) { $nb_children{$_}++;      }

  my $arrays; # tag => array where elements are stored

  # store children
  foreach my $child (@children)
  { if( $child->is_text)
    { # generate with a content key

      my $text= $self->_text_with_vars( $options);
      if( $options->{normalise_space} >= 2) { $text= _normalize_space( $text); }
      if(  $options->{force_content}
        || $nb_atts

```



```

        || (scalar @children > 1)
    )
    { $data->{$options->{content_key}}= $text; }
else
    { $data= $text; }
}
else
{ # element with sub-elements
my $child_gi= $child->gi;

my $child_data= $child->_simplify( $options);

# first see if we need to simplify further the child data
# simplify because of grouped tags
if( my $grouped_tag= $options->{group_tags}->{$child_gi})
{ # check that the child data is a hash with a single field
    unless( (ref( $child_data) eq 'HASH')
        && (keys %$child_data == 1)
        && defined ( my $grouped_child_data= $child_data->{$grouped_tag})
    )
    { croak "error in grouped tag $child_gi"; }
    else
    { $child_data= $grouped_child_data; }
}
# simplify because of extra folding
if( $options->{extra_folding})
{ if( (ref( $child_data) eq 'HASH')
    && (keys %$child_data == 1)
    && defined( my $content= $child_data->{$options->{content_key}})
)
    { $child_data= $content; }
}

if( my $keyatt= $child->_key_attr( $options))
{ # simplify element with key
    my $key= $child->att( $keyatt);
    if( $options->{normalise_space} >= 1) { $key= _normalize_space( $key); }
    $data->{$child_gi}->{$key}= $child_data;
}
elsif( $options->{forcearray}
    || $options->{forcearray_tags}->{$child_gi}
    || ( $nb_children{$child_gi}
> 1)
)
{ # simplify element to store in an array
    if( defined $child_data && $child_data ne "" )
    { $data->{$child_gi} ||= [];
        push @{$data->{$child_gi}}, $child_data;
    }
}

```

```

    }
    else
    { $data->{$child_gi} = [{}]; }
  }
  else
  { # simplify element to store as a hash field
    $data->{$child_gi} = $child_data;
    $data->{$child_gi} = defined $child_data && $child_data ne "" ? $child_data : {};
  }
}
}

# store atts
# TODO: deal with att that already have an element by that name
foreach my $att (keys %atts)
{ # do not store if the att is a key that needs to be removed
  if( $options->{remove_key_for_all}->{$att}
    || $options->{remove_key_for_elt}->{"$gi#$att"}
  )
  { next; }

  my $att_text = $options->{var} ?
_replace_vars_in_text( $atts{$att}, $options ) : $atts{$att} ;
  if( $options->{normalise_space} >= 2 ) { $att_text = _normalize_space( $att_text); }

  if( $options->{prefix_key_for_all}->{$att}
    || $options->{prefix_key_for_elt}->{"$gi#$att"}
  )
  { # prefix the att
    $data->{"-$att"} = $att_text;
  }
  else
  { # normal case
    $data->{$att} = $att_text;
  }
}

return $data;
}

sub _key_attr
{ my( $elt, $options ) = @_;
  return if( $options->{noattr} );
  if( $options->{key_for_all} )
  { foreach my $att ( $elt->att_names )
    { if( $options->{key_for_all}->{$att} )
      { return $att; }
    }
  }
}

```

```

    }
elseif( $options->{key_for_elt})
    { if( my $key_for_elt= $options->{key_for_elt}->{$selt->gi} )
        { return $key_for_elt if( defined( $selt->att( $key_for_elt))); }
    }
return;
}

```

```

sub _text_with_vars
{ my( $selt, $options)= @_;
    my $text;
    if( $options->{var})
        { $text= _replace_vars_in_text( $selt->text, $options);
          $selt->_store_var( $options);
        }
    else
        { $text= $selt->text; }
    return $text;
}

```

```

sub _normalize_space
{ my $text= shift;
    $text=~ s{\s+}{ }sg;
    $text=~ s{^\s}{ };
    $text=~ s{\s$}{ };
    return $text;
}

```

```

sub att_nb
{ return 0 unless( my $atts= $_[0]->atts);
    return scalar keys %$atts;
}

```

```

sub has_no_atts
{ return 1 unless( my $atts= $_[0]->atts);
    return scalar keys %$atts ? 0 : 1;
}

```

```

sub _replace_vars_in_text
{ my( $text, $options)= @_;

    $text=~ s{($options->{var_regexp})}
        { if( defined( my $value= $options->{var_values}->{$2}))
            { $value }
          else
            { warn "unknown variable $2\n";

```

```

        $1
    }
    }gex;
    return $text;
}

```

```

sub _store_var
{ my( $elt, $options)= @_ ;
  if( defined( my $var_name= $elt->att( $options->{var})))
    { $options->{var_values}->{$var_name}= $elt->text;
    }
}

```

split a text element at a given offset

```

sub split_at
{ my( $elt, $offset)= @_ ;
  my $text_elt= $elt->is_text ? $elt : $elt->first_child( $TEXT) || return "";
  my $string= $text_elt->text;
  my $left_string= substr( $string, 0, $offset);
  my $right_string= substr( $string, $offset);
  $text_elt->set_pcddata( $left_string);
  my $new_elt= $elt->new( $elt->gi, $right_string);
  $new_elt->paste( after => $elt);
  return $new_elt;
}

```

split an element or its text descendants into several, in place

all elements (new and untouched) are returned

```

sub split
{ my $elt= shift;
  my @text_chunks;
  my @result;
  if( $elt->is_text) { @text_chunks= ($elt); }
  else { @text_chunks= $elt->descendants( $TEXT); }
  foreach my $text_chunk (@text_chunks)
    { push @result, $text_chunk->_split( 1, @_); }
  return @result;
}

```

split an element or its text descendants

into several, in place

created elements (those which match the regexp) are returned

```

sub mark
{ my $elt= shift;
  my @text_chunks;
  my @result;

```

```

if( $elt->is_text) { @text_chunks= ($elt); }
else          { @text_chunks= $elt->descendants( $TEXT); }
foreach my $text_chunk (@text_chunks)
  { push @result, $text_chunk->_split( 0, @_); }
return @result;
}

# split a single text element
# return_all defines what is returned: if it is true
# only returns the elements created by matches in the split regexp
# otherwise all elements (new and untouched) are returned

{

sub _split
{ my $elt= shift;
  my $return_all= shift;
  my $regexp= shift;
  my @tags;

  while( @_ )
    { my $tag= shift();
      if( ref $_[0])
        { push @tags, { tag => $tag, atts => shift }; }
      else
        { push @tags, { tag => $tag }; }
    }

  unless( @tags) { @tags= { tag => $elt->_parent->gi }; }

  my
@result;          # the returned list of elements
  my $text= $elt->text;
  my $gi= $elt->gi;

  # 2 uses: if split matches then the first substring reuses $elt
  #   once a split has occurred then the last match needs to be put in
  #   a new element
  my $previous_match= 0;

  while( my( $pre_match, @matches)= $text=~ /^(.*?)$regexp(.*)$/gcs)
    { $text= pop @matches;
      if( $previous_match)
        { # match, not the first one, create a new text ($gi) element
          _utf8_ify( $pre_match) if( $] < 5.010);
          $elt= $elt->insert_new_elt( after => $gi, $pre_match);
          push @result, $elt if( $return_all);
        }
    }
}

```

```

    }
else
    { # first match in $elt, re-use $elt for the first sub-string
      _utf8_ify( $pre_match) if( $) < 5.010);
      $elt->set_text( $pre_match);
      $previous_match++;          # store the fact that there
was a match
      push @result, $elt if( $return_all);
    }

# now deal with matches captured in the regexp
if( @matches)
    { # match, with capture
      my $i=0;
      foreach my $match (@matches)
      { # create new element, text is the match
        _utf8_ify( $match) if( $) < 5.010);
        my $tag = _repl_match( $tags[$i]->{tag}, @matches) || '#PCDATA';
        my $atts = \%{$tags[$i]->{atts}} || {};
        my %atts= map { _repl_match( $_, @matches) => _repl_match( $atts->{$_}, @matches) } keys %$atts;
        $elt= $elt->insert_new_elt( after => $tag, \%atts, $match);
        push @result, $elt;
        $i= ($i + 1) % @tags;
      }
    }
else
    { # match, no captures
      my $tag = $tags[0]->{tag};
      my $atts = \%{$tags[0]->{atts}} || {};
      $elt= $elt->insert_new_elt(
after => $tag, $atts);
      push @result, $elt;
    }
}

if( $previous_match && $text)
    { # there was at least 1 match, and there is text left after the match
      $elt= $elt->insert_new_elt( after => $gi, $text);
    }

push @result, $elt if( $return_all);

return @result; # return all elements
}

sub _repl_match
{ my( $val, @matches)= @_ ;
  $val=~ s/{\$(\d+)}{ $matches[$1-1]}g;
  return $val;
}

```

```

}

# evil hack needed as sometimes
my $encode_is_loaded=0; # so we only load Encode once
sub _utf8_ify
{
    if( $perl_version >= 5.008 and $perl_version < 5.010 and !_keep_encoding())
    { unless( $encode_is_loaded) { require Encode; import Encode; $encode_is_loaded++; }
      Encode::_utf8_on( $_[0]); # the flag should be set but is not
    }
}

}

{ my %replace_sub; # cache for complex expressions (expression => sub)

sub subs_text
{ my( $elt, $regexp, $replace)= @_;

my $replacement_string;
my $is_string= _is_string( $replace);

my @parents;

foreach my $text_elt ( $elt->descendants_or_self( $TEXT))
{
    if( $is_string)
    { my $text= $text_elt->text;
      $text=~ s{$regexp}{ _replace_var( $replace, $1, $2, $3, $4, $5, $6, $7, $8, $9)}egx;
      $text_elt->set_text( $text);
    }
    else
    {
        no utf8; # = perl 5.6
        my $replace_sub= ( $replace_sub{$replace} ||= _install_replace_sub( $replace));
        my $text= $text_elt->text;
        my $pos=0; # used to skip text that was previously matched
        my $found_hit;
        while( my( $pre_match_string, $match_string, @var)= ($text=~ m{(.?)}($regexp)}sg))
        { $found_hit=1;
          my $match_start = length( $pre_match_string);
          my $match      = $match_start ? $text_elt->split_at( $match_start + $pos) : $text_elt;

my $match_length = length( $match_string);
my $post_match   = $match->split_at( $match_length);
$replace_sub->( $match, @var);

```

```

        # go to next
        $text_elt= $post_match;
        $text= $post_match->text;

        if( $found_hit) { push @parents, $text_elt->parent unless $parents[-1] && $parents[-1]== $text_elt->parent; }

    }
}

foreach my $parent (@parents) { $parent->normalize; }

return $elt;
}

sub _is_string
{ return ($_[0]=~ m{&e[ln]t}) ? 0: 1 }

sub _replace_var
{ my( $string, @var)= @_;
  unshift @var, undef;
  $string=~ s{\\(\\d)}{\\$var[$1]}g;
  return $string;
}

sub _install_replace_sub
{ my $replace_exp= shift;
  my @item= split m{(&e[ln]t\\s*\\([\\^]*\\))}, $replace_exp;
  my $sub= q{ my( $match, @var)= @_; my $new; my $last_inserted=$match;};
  my( $gi, $exp);
  foreach my $item
  (@item)
  { next if ! length $item;
    if( $item=~ m{^&elt\\s*\\([\\^]*\\)})
    { $exp= $1; }
    elsif( $item=~ m{^&ent\\s*\\(\\s*\\([\\^\\s]*\\)\\s*\\)})
    { $exp= " '#ENT' => $1"; }
    else
    { $exp= qq{ '#PCDATA' => "$item"; }
    $exp=~ s{\\(\\d)}{my $i= $1-1; "\\$var[$i]"}eg; # replace references to matches
    $sub.= qq{ \\$new= \\$match->new( $exp); };
    $sub .= q{ \\$new->paste( after => $last_inserted); $last_inserted=$new;};
  }
  $sub .= q{ $match->delete; };
  #$$sub=~ s/;/\\n/g; warn "subs: $sub";

```



```

my $coderef= eval "sub { $NO_WARNINGS; $sub }";
if( $@) { croak( "invalid replacement expression $replace_exp: ",$@); }
return $coderef;
}

}

```

```

sub merge_text
{ my( $e1, $e2)= @_ ;
  croak "invalid merge: can only merge 2 elements"
    unless( isa( $e2, 'XML::Twig::Elt') );
  croak "invalid merge: can only merge 2 text elements"
    unless( $e1->is_text && $e2->is_text
&& ($e1->gi eq $e2->gi));

  my $t1_length= length( $e1->text);

  $e1->set_text( $e1->text . $e2->text);

  if( my $extra_data_in_pdata= $e2->_extra_data_in_pdata)
    { foreach my $data ( @$extra_data_in_pdata) { $e1->_push_extra_data_in_pdata( $data->{text}, $data-
->{offset} + $t1_length); } }

  $e2->delete;

  return $e1;
}

```

```

sub merge
{ my( $e1, $e2)= @_ ;
  my @e2_children= $e2->_children;
  if( $e1->_last_child && $e1->_last_child->is_pdata
    && @e2_children && $e2_children[0]->is_pdata
  )
  { my $t1_length= length( $e1->_last_child->{pdata});
    my $child1= $e1->_last_child;
    my $child2= shift @e2_children;
    $child1->{pdata} .= $child2->{pdata};

    my $extra_data= $e1->_extra_data_before_end_tag . $e2->extra_data;

    if( $extra_data)
      { $e1->_del_extra_data_before_end_tag;
        $child1->_push_extra_data_in_pdata( $extra_data, $t1_length);
      }

    if( my $extra_data_in_pdata=

```

```

$child2->_extra_data_in_pdata)
    { foreach my $data (@$extra_data_in_pdata) { $child1->_push_extra_data_in_pdata( $data->{text}, $data-
>{offset} + $t1_length); } }

    if( my $extra_data_before_end_tag= $e2->_extra_data_before_end_tag)
        { $e1->_set_extra_data_before_end_tag( $extra_data_before_end_tag); }
    }

foreach my $e (@e2_children) { $e->move( last_child => $e1); }

$e2->delete;
return $e1;
}

```

recursively copy an element and returns the copy (can be huge and long)

```

sub copy
{ my $elt= shift;
  my $copy= $elt->new( $elt->gi);

  if( $elt->extra_data) { $copy->set_extra_data( $elt->extra_data); }
  if( $elt->_extra_data_before_end_tag) { $copy->_set_extra_data_before_end_tag( $elt-
>_extra_data_before_end_tag); }

  if( $elt->is_asis) { $copy->set_asis; }

  if( $elt->is_pdata)
  { $copy->set_pdata( $elt->pdata);
    if( $elt->_extra_data_in_pdata) { $copy->_set_extra_data_in_pdata( $elt->_extra_data_in_pdata);
  }
  }

  elsif( $elt->is_cdata)
  { $copy->_set_cdata( $elt->cdata);
    if( $elt->_extra_data_in_pdata) { $copy->_set_extra_data_in_pdata( $elt->_extra_data_in_pdata); }
  }

  elsif( $elt->is_pi)
  { $copy->_set_pi( $elt->target, $elt->data); }
  elsif( $elt->is_comment)
  { $copy->_set_comment( $elt->comment); }
  elsif( $elt->is_ent)
  { $copy->set_ent( $elt->ent); }
  else
  { my @children= $elt->_children;
    if( my $atts= $elt->atts)
    { my %atts;
      tie %atts, 'Tie::IxHash' if (keep_atts_order());
      %atts= %{$atts}; # we want to do a real copy of the attributes
      $copy->set_atts( \%atts);
    }
  }
}

```

```

    }
    foreach my $child (@children)
    { my $child_copy= $child->copy;
      $child_copy->paste( 'last_child', $copy);
    }
  }
  # save links to the original location, which can be convenient and is used for namespace resolution
  foreach my $link ( qw(parent
prev_sibling next_sibling) )
  { $copy->{former}->{$link}= $elt->{$link};
    if( $XML::Twig::weakrefs) { weaken( $copy->{former}->{$link}); }
  }

  $copy->set_empty( $elt->is_empty);

  return $copy;
}

sub delete
{ my $elt= shift;
  $elt->cut;
  $elt->DESTROY unless $XML::Twig::weakrefs;
  return undef;
}

sub __destroy
{ my $elt= shift;
  return if( $XML::Twig::weakrefs);
  my $t= shift || $elt->twig; # optional argument, passed in recursive calls

  foreach( @{$elt->_children}) { $_->DESTROY( $t); }

  # the id reference needs to be destroyed
  # lots of tests to avoid warnings during the cleanup phase
  $elt->del_id( $t) if( $ID && $t && defined( $elt->{att}) && exists( $elt->{att}->{$ID}));
  if( $elt->{former}) { foreach (keys %{$elt->{former}}) { delete $elt->{former}->{$_}; } delete $elt->{former}; }

  foreach (qw( keys %$elt)) { delete $elt->{$_}; }
  undef $elt;
}

BEGIN
{ sub set_destroy { if( $XML::Twig::weakrefs)
  { undef *DESTROY } else { *DESTROY= *__destroy; } }
  set_destroy();
}

```

```

# ignores the element
sub ignore
{ my $elt= shift;
  my $t= $elt->twig;
  $t->ignore( $elt, @_);
}

BEGIN {
my $pretty          = 0;
my $quote           = '';
my $INDENT          = ' ';
my $empty_tag_style = 0;
my $remove_cdata    = 0;
my $keep_encoding    = 0;
my $expand_external_entities = 0;
my $keep_atts_order  = 0;
my $do_not_escape_amp_in_atts = 0;
my $WRAP            = '80';
my $REPLACED_ENTS    = qq{&<};

my ($NSGMLS, $NICE, $INDENTED, $INDENTEDCT, $INDENTEDC, $WRAPPED, $RECORD1,
$RECORD2, $INDENTEDA)= (1..9);
my %KEEP_TEXT_TAG_ON_ONE_LINE= map { $_ => 1 } ( $INDENTED, $INDENTEDCT, $INDENTEDC,
$INDENTEDA, $WRAPPED);
my %WRAPPED = map { $_ => 1 } ( $WRAPPED, $INDENTEDA, $INDENTEDC);

my %pretty_print_style=
( none    => 0,      # no added \n
  nsgmls  =>
$NSGMLS,  # nsgmls-style, \n in tags
  # below this line styles are UNSAFE (the generated XML can be well-formed but invalid)
  nice    => $NICE,   # \n after open/close tags except when the
                    # element starts with text
  indented => $INDENTED, # nice plus indented
  indented_close_tag => $INDENTEDCT, # nice plus indented
  indented_c => $INDENTEDC, # slightly more compact than indented (closing
                    # tags are on the same line)
  wrapped  => $WRAPPED, # text is wrapped at column
  record_c => $RECORD1, # for record-like data (compact)
  record   => $RECORD2, # for record-like data (not so compact)
  indented_a => $INDENTEDA, # nice, indented, and with attributes on separate
                    # lines as the nsgmls style, as well as wrapped
                    # lines - to make the xml friendly to line-oriented tools
  cvs      => $INDENTEDA,
# alias for indented_a
);

my ($HTML, $EXPAND)= (1..2);

```

```

my %empty_tag_style=
( normal => 0,      # <tag/>
  html  => $HTML,   # <tag />
  xhtml => $HTML,   # <tag />
  expand => $EXPAND, # <tag></tag>
);

my %quote_style=
( double => '"',
  single => "'",
  # smart => "smart",
);

my $xml_space_preserve; # set when an element includes xml:space="preserve"

my $output_filter;      # filters the entire output (including < and >)
my $output_text_filter; # filters only the text part (tag names, attributes, pcdata)

my $replaced_ents= $REPLACED_ENTS;

# returns those pesky "global" variables so you can switch between twigs
sub global_state ## no critic (Subroutines::ProhibitNestedSubs);
{ return
  { pretty          => $pretty,
    quote           => $quote,
    indent          => $INDENT,
    empty_tag_style => $empty_tag_style,
    remove_cdata    => $remove_cdata,
    keep_encoding    => $keep_encoding,
    expand_external_entities => $expand_external_entities,
    output_filter    => $output_filter,
    output_text_filter => $output_text_filter,
    keep_atts_order  => $keep_atts_order,
    do_not_escape_amp_in_atts => $do_not_escape_amp_in_atts,
    wrap            => $WRAP,
    replaced_ents    => $replaced_ents,
  };
}

# restores the global variables
sub set_global_state
{ my $state= shift;
  $pretty          = $state->{pretty};
  $quote           = $state->{quote};
  $INDENT          = $state->{indent};
  $empty_tag_style = $state->{empty_tag_style};

```

```

$remove_cdata      = $state->{remove_cdata};
$keep_encoding      = $state->{keep_encoding};
$expand_external_entities = $state->{expand_external_entities};
$output_filter      = $state->{output_filter};
$output_text_filter = $state->{output_text_filter};
$keep_atts_order    = $state->{keep_atts_order};
$do_not_escape_amp_in_atts = $state->{do_not_escape_amp_in_atts};
$WRAP               = $state->{wrap};
$replaced_ents      = $state->{replaced_ents},
}

# sets global state to defaults
sub init_global_state
{ set_global_state(
  { pretty      => 0,
    quote       => "",
    indent      => $INDENT,
    empty_tag_style => 0,
    remove_cdata => 0,
    keep_encoding => 0,
    expand_external_entities => 0,
    output_filter => undef,
    output_text_filter => undef,
    keep_atts_order => undef,
    do_not_escape_amp_in_atts => 0,
    wrap         => $WRAP,
    replaced_ents
      => $REPLACED_ENTS,
  });
}

# set the pretty_print style (in $pretty) and returns the old one
# can be called from outside the package with 2 arguments (elt, style)
# or from inside with only one argument (style)
# the style can be either a string (one of the keys of %pretty_print_style
# or a number (presumably an old value saved)
sub set_pretty_print
{ my $style= lc( defined $_[1] ? $_[1] : $_[0]); # so we cover both cases
  my $old_pretty= $pretty;
  if( $style=~ /\d+$/)
  { croak "invalid pretty print style $style" unless( $style < keys %pretty_print_style);
    $pretty= $style;
  }
  else
  { croak "invalid pretty print style '$style'" unless( exists $pretty_print_style{$style});
    $pretty= $pretty_print_style{$style};
  }
}

```

```

    if( $WRAPPED{$pretty} )
        { XML::Twig::_use( "Text::Wrap") or croak( "Text::Wrap not available, cannot use style $style"); }
    return $old_pretty;
}

sub
_pretty_print { return $pretty; }

# set the empty tag style (in $empty_tag_style) and returns the old one
# can be called from outside the package with 2 arguments (elt, style)
# or from inside with only one argument (style)
# the style can be either a string (one of the keys of %empty_tag_style
# or a number (presumably an old value saved)
sub set_empty_tag_style
{ my $style= lc( defined $_[1] ? $_[1] : $_[0]); # so we cover both cases
  my $old_style= $empty_tag_style;
  if( $style=~ /^\\d+$/)
    { croak "invalid empty tag style $style"
      unless( $style < keys %empty_tag_style);
      $empty_tag_style= $style;
    }
  else
    { croak "invalid empty tag style '$style'"
      unless( exists $empty_tag_style{$style});
      $empty_tag_style= $empty_tag_style{$style};
    }
  return $old_style;
}

sub _pretty_print_styles
{ return (sort { $pretty_print_style{$a} <=> $pretty_print_style{$b} || $a cmp $b }
keys %pretty_print_style); }

sub set_quote
{ my $style= $_[1] || $_[0];
  my $old_quote= $quote;
  croak "invalid quote '$style'" unless( exists $quote_style{$style});
  $quote= $quote_style{$style};
  return $old_quote;
}

sub set_remove_cdata
{ my $new_value= defined $_[1] ? $_[1] : $_[0];
  my $old_value= $remove_cdata;
  $remove_cdata= $new_value;
  return $old_value;
}

```

```

sub set_indent
{ my $new_value= defined $_[1] ? $_[1] : $_[0];
  my $old_value= $INDENT;
  $INDENT= $new_value;
  return $old_value;
}

sub set_wrap
{ my $new_value= defined $_[1] ? $_[1] : $_[0];
  my $old_value= $WRAP;
  $WRAP= $new_value;
  return $old_value;
}

sub set_keep_encoding
{ my $new_value= defined $_[1] ? $_[1] : $_[0];
  my $old_value= $keep_encoding;
  $keep_encoding= $new_value;
  return $old_value;
}

sub set_replaced_ents
{ my $new_value= defined
$_[1] ? $_[1] : $_[0];
  my $old_value= $replaced_ents;
  $replaced_ents= $new_value;
  return $old_value;
}

sub do_not_escape_gt
{ my $old_value= $replaced_ents;
  $replaced_ents= qq{&<}; # & needs to be first
  return $old_value;
}

sub escape_gt
{ my $old_value= $replaced_ents;
  $replaced_ents= qq{&<>}; # & needs to be first
  return $old_value;
}

sub _keep_encoding { return $keep_encoding; } # so I can use elsewhere in the module

sub set_do_not_escape_amp_in_atts
{ my $new_value= defined $_[1] ? $_[1] : $_[0];
  my $old_value= $do_not_escape_amp_in_atts;

```



```

    $do_not_escape_amp_in_atts= $new_value;
    return $old_value;
}

sub output_filter    { return $output_filter; }
sub output_text_filter { return $output_text_filter; }

sub set_output_filter
{ my $new_value= defined $_[1] ? $_[1] : $_[0]; # can be called in object/non-object mode
  # if called in object mode with no argument, the filter
  is undefined
  if( isa( $new_value, 'XML::Twig::Elt') || isa( $new_value, 'XML::Twig')) { undef $new_value; }
  my $old_value= $output_filter;
  if( !$new_value || isa( $new_value, 'CODE') )
    { $output_filter= $new_value; }
  elsif( $new_value eq 'latin1')
    { $output_filter= XML::Twig::latin1();
    }
  elsif( $XML::Twig::filter{$new_value})
    { $output_filter= $XML::Twig::filter{$new_value}; }
  else
    { croak "invalid output filter '$new_value'; }

  return $old_value;
}

sub set_output_text_filter
{ my $new_value= defined $_[1] ? $_[1] : $_[0]; # can be called in object/non-object mode
  # if called in object mode with no argument, the filter is undefined
  if( isa( $new_value, 'XML::Twig::Elt') || isa( $new_value, 'XML::Twig')) { undef $new_value; }
  my $old_value= $output_text_filter;
  if( !$new_value || isa( $new_value, 'CODE') )
    { $output_text_filter= $new_value; }
  elsif( $new_value eq 'latin1')
    { $output_text_filter= XML::Twig::latin1();
    }
  elsif( $XML::Twig::filter{$new_value})
    { $output_text_filter= $XML::Twig::filter{$new_value}; }
  else
    { croak "invalid output text filter '$new_value'; }

  return $old_value;
}

sub set_expand_external_entities
{ my $new_value= defined $_[1] ? $_[1] : $_[0];
  my $old_value= $expand_external_entities;
  $expand_external_entities= $new_value;
}

```

```

    return $old_value;
}

sub set_keep_atts_order
{ my $new_value= defined $_[1] ? $_[1] : $_[0];
  my $old_value= $keep_atts_order;
  $keep_atts_order= $new_value;
  return $old_value;

}

sub keep_atts_order { return $keep_atts_order; } # so I can use elsewhere in the module

my %html_empty_elt;
BEGIN { %html_empty_elt= map { $_ => 1 } qw( base meta link hr br param img area input col); }

sub start_tag
{ my( $elt, $option)= @_ ;

return if( $elt->{gi} < $XML::Twig::SPECIAL_GI);

    my $extra_data= $elt->{extra_data} || "";

    my $gi= $elt->gi;
    my $att= $elt->{att}; # should be $elt->atts, optimized into a pure hash look-up

    my $ns_map= $att ? $att->{'#original_gi'} : "";
    if( $ns_map) { $gi= _restore_original_prefix( $ns_map, $gi); }
    $gi=~ s{^/#default:}{}; # remove default prefix

    if( $output_text_filter) { $gi= $output_text_filter->( $gi); }

    # get the attribute and their values
    my $att_sep = $pretty==$NSGMLS ? "\n"
        : $pretty==$INDENTEDA ? "\n" . $INDENT x ($elt->level+1) . ' '
        : ' '
        ;

    my $replace_in_att_value= $replaced_ents . "$quote\\t\\r\\n";
    if( $option->{escape_gt} && $replaced_ents !~ m{>}) { $replace_in_att_value.= '>'; }

    my $tag;
    my @att_names= grep { !_is_private_name( $_) } $keep_atts_order ? keys %{ $att } : sort keys %{ $att };
    if( @att_names)
    { my $atts= join $att_sep, map { my $output_att_name= $ns_map ? _restore_original_prefix( $ns_map, $_) :
$_;

```

```

        if( $output_text_filter)
        { $output_att_name= $output_text_filter->( $output_att_name); }
        $output_att_name . '=' . $quote . _att_xml_string( $att->{$_}, $replace_in_att_value) .
$quote

    }
    @att_names

;

    if( $pretty==$INDENTEDA && @att_names == 1) { $att_sep= ' '; }
    $tag= "<$gi$att_sep$atts";
}
else
{ $tag= "<$gi"; }

$tag .= "\n" if($pretty==$NSGMLS);

# force empty if suitable HTML tag, otherwise use the value from the input tree
if( ($empty_tag_style eq $HTML) && !$elt->_first_child && !$elt->_extra_data_before_end_tag &&
$html_empty_elt{$gi})
{ $elt->{empty}=
1; }
my $empty= defined $elt->{empty} ? $elt->{empty}
: $elt->_first_child ? 0
: 1;

$tag .= (!$elt->{empty} || $elt->_extra_data_before_end_tag) ? '>' # element has content
: (($empty_tag_style eq $HTML) && $html_empty_elt{$gi}) ? ' />' # html empty element
# cvs-friendly format
: ( $pretty == $INDENTEDA && @att_names > 1) ? "\n" . $INDENT x $elt->level . ">"
: ( $pretty == $INDENTEDA && @att_names == 1) ? " />"
: $empty_tag_style ? "></" . $elt->gi . ">" # $empty_tag_style is $HTML or
$EXPAND
: '/'>
;

if( $elt->_is_private) { $tag= "; }

#warn "TRACE: ", $tag, ":", Encode::is_utf8( $tag) ? "has flag" : "FLAG NOT
SET";

unless( $pretty) { return defined( $extra_data) ? $extra_data . $tag : $tag; }

my $prefix="";
my $return=""; # " or \n is to be printed before the tag
my $indent=0; # number of indents before the tag

if( $pretty==$RECORD1)

```

```

    { my $level= $elt->level;
      $return= "\n" if( $level < 2);
      $indent= 1 if( $level == 1);
    }

elseif( $pretty==$RECORD2)
  { $return= "\n";
    $indent= $elt->level;
  }

elseif( $pretty==$NICE)
  { my $parent= $elt->_parent;
    unless( !$parent || $parent->{contains_text})
      { $return= "\n"; }
    $elt->{contains_text}= 1 if( ($parent && $parent->{contains_text})
                               || $elt->contains_text);
  }

elseif( $KEEP_TEXT_TAG_ON_ONE_LINE{$pretty})
  { my $parent= $elt->_parent;
    unless( !$parent || $parent->{contains_text})
      { $return= "\n";
        $indent= $elt->level;

      }
    $elt->{contains_text}= 1 if( ($parent && $parent->{contains_text})
                               || $elt->contains_text);
  }

if( $return || $indent)
  { # check for elements in which spaces should be kept
    my $t= $elt->twig;
    return $extra_data . $tag if( $xml_space_preserve);
    if( $t && $t->{twig_keep_spaces_in})
      { foreach my $ancestor ( $elt->ancestors)
        { return $extra_data . $tag if( $t->{twig_keep_spaces_in}->{$ancestor->gi}) }
      }

    $prefix= $INDENT x $indent;
    if( $extra_data)
      { $extra_data=~ s{\s+}{};
        $extra_data=~ s{^\s+}{};
        $extra_data= $prefix . $extra_data . $return;
      }
  }

return $return . $extra_data . $prefix . $tag;

```

```

}

sub end_tag
{ my $elt= shift;
  return " if( ($elt->{gi}<$XML::Twig::SPECIAL_GI)
    || ($elt->is_empty
    && !$elt->_extra_data_before_end_tag)
    );
  my $tag= "<";
  my $gi= $elt->gi;

  if( my $map= $elt->att( '#original_gi') ) { $gi= _restore_original_prefix( $map, $gi); }
  $gi=~ s{^/#default:}{}; # remove default prefix

  if( $output_text_filter ) { $gi= $output_text_filter->( $elt->gi); }
  $tag .= "/"$gi>";

  $tag = ($elt->_extra_data_before_end_tag || " ) . $tag;

  if( $elt->_is_private ) { $tag= "; }

  return $tag unless $pretty;

  my $prefix="";
  my $return=0; # 1 if a \n is to be printed before the tag
  my $indent=0; # number of indents before the tag

  if( $pretty==$RECORD1)
    { $return= 1 if( $elt->level == 0);
    }

  elsif( $pretty==$RECORD2)
    { unless( $elt->contains_text)
      { $return= 1 ;
        $indent= $elt->level;
      }
    }

  elsif( $pretty==$NICE)
    { my $parent= $elt->_parent;
      if( ( $parent && !$parent->{contains_text})
      || !$parent )
        && ( !$elt->{contains_text}
        && ($elt->{has_flushed_child} || $elt->_first_child())
        )
      )
      { $return= 1; }
    }
}

```

```

elseif( $KEEP_TEXT_TAG_ON_ONE_LINE{$pretty})
{
  my $parent= $elt->_parent;
  if( ( ($parent && !$parent->{contains_text}) || !$parent )
    && ( !$elt->{contains_text}
    && ($elt->{has_flushed_child} || $elt->_first_child())
  )
  )
  {
    $return= 1;
    $indent= $elt->level;
  }
}

if( $return || $indent)
{
  # check for elements in which spaces should be kept
  my $t= $elt->twig;
  return $tag if( $xml_space_preserve);
  if( $t && $t->{twig_keep_spaces_in})
  {
    foreach my $ancestor ( $elt, $elt->ancestors)
    {
      return $tag if( $t->{twig_keep_spaces_in}->{$ancestor->gi}) }
    }
  }

  if( $return)
  {
    $prefix= ($pretty== $INDENTEDCT) ? "\n$INDENT" : "\n";
    $prefix.= $INDENT x $indent;
  }

  # add a \n at the end of the document (after the root element)
  $tag .= "\n" unless( $elt->parent);

  return $prefix . $tag;
}

sub _restore_original_prefix
{
  my( $map, $name)= @_ ;
  my $prefix= _ns_prefix( $name);
  if( my $original_prefix= $map->{$prefix})
  {
    if( $original_prefix eq '#default')
    {
      $name=~ s{^$prefix:}{}; }
    else
    {
      $name=~ s{^$prefix(?:=)}{$original_prefix}; }
  }
  return $name;
}

# buffer used to hold the text to print/sprint, to avoid passing it back and forth between methods
my @sprint;

```

```

# $elt is an element to print
# $fh is an optional filehandle to print to
# $pretty is an optional value, if true a \n is printed after the < of the
# opening tag
sub print
{ my $elt= shift;

    my $fh= _is_fh( $_[0] ) ? shift : undef;
    my $old_select= defined $fh
? select $fh : undef;
    print $elt->sprint( @_);
    select $old_select if( defined $old_select);
}

# those next 2 methods need to be refactored, they are copies of the same methods in XML::Twig
sub print_to_file
{ my( $elt, $filename)= (shift, shift);
    my $out_fh;
    open( $out_fh, ">$filename") or _croak( "cannot create file $filename: $!"); # < perl 5.8
    my $mode= $keep_encoding ? '>': '>:utf8'; # >= perl 5.8
    open( $out_fh, $mode, $filename) or _croak( "cannot create file $filename: $!"); # >= perl 5.8
    $elt->print( $out_fh, @_);
    close $out_fh;
    return $elt;
}

# probably only works on *nix (at least the chmod bit)
# first print to a temporary file, then rename that file to the desired file name, then change permissions
# to the original file permissions (or to the current umask)
sub safe_print_to_file
{ my( $elt, $filename)= (shift, shift);
    my $perm= -f $filename ? (stat $filename)[2] & 0777 :
~umask();
    XML::Twig::_use( 'File::Temp' ) || croak "need File::Temp to use safe_print_to_file\n";
    XML::Twig::_use( 'File::Basename' ) || croak "need File::Basename to use safe_print_to_file\n";
    my $tmpdir= File::Basename::dirname( $filename);
    my( $fh, $tmpfilename) = File::Temp::tempfile( DIR => $tmpdir);
    $elt->print_to_file( $tmpfilename, @_);
    rename( $tmpfilename, $filename) or unlink $tmpfilename && _croak( "cannot move temporary file to $filename:
$!");
    chmod $perm, $filename;
    return $elt;
}

# same as print but does not output the start tag if the element
# is marked as flushed

```

```

sub flush
{ my $elt= shift;
  my $up_to= $_[0] && isa( $_[0], 'XML::Twig::Elt') ? shift : $elt;
  $elt->twig->flush_up_to( $up_to, @_);
}

sub purge
{ my $elt= shift;
  my $up_to= $_[0] && isa( $_[0], 'XML::Twig::Elt') ? shift : $elt;
  $elt->twig->purge_up_to( $up_to, @_);
}

sub _flush
{ my $elt= shift;

my $pretty;
my $fh= _is_fh( $_[0]) ? shift : undef;
my $old_select= defined $fh ? select $fh : undef;
my $old_pretty= defined ($pretty= shift) ? set_pretty_print( $pretty) : undef;

$xml_space_preserve= 1 if( ($elt->inherit_att( 'xml:space') || "") eq 'preserve');

$elt->__flush();

$xml_space_preserve= 0;

select $old_select if( defined $old_select);
set_pretty_print( $old_pretty) if( defined $old_pretty);
}

sub __flush
{ my $elt= shift;

if( $elt->{gi} >= $XML::Twig::SPECIAL_GI)
{ my $preserve= ($elt->att( 'xml:space') || "") eq 'preserve';
  $xml_space_preserve++ if $preserve;
  unless( $elt->_flushed)
  { print $elt->start_tag();
  }

  # flush the children
  my @children= $elt->_children;
  foreach my $child (@children)
  { $child->_flush( $pretty);
    $child->_set_flushed;
  }
  if( ! $elt->{end_tag_flushed})

```



```

        { print $elt->end_tag;
          $elt->{end_tag_flushed}=1;
          $elt->_set_flushed;
        }
$xml_space_preserve-- if $preserve;
# used for pretty printing
if( my $parent= $elt->parent) { $parent->{has_flushed_child}= 1; }
}
else # text or special element
{ my $text;
  if( $elt->is_pCDATA) { $text= $elt->pcdata_xml_string;
    if( my $parent= $elt->parent)
      { $parent->{contains_text}= 1; }
  }
  elsif( $elt->is_cdata) { $text= $elt->cdata_string;
    if( my $parent= $elt->parent)
      { $parent->{contains_text}= 1; }
  }
  elsif( $elt->is_pi) { $text= $elt->pi_string; }
  elsif( $elt->is_comment) { $text= $elt->comment_string;
}
    elsif( $elt->is_ent) { $text= $elt->ent_string; }

    print $output_filter ? $output_filter->( $text) : $text;
  }
}

sub xml_text
{ my( $elt, @options)= @_;

  if( @options && grep { lc( $_) eq 'no_recurse' } @options) { return $elt->xml_text_only; }

  my $string="";

  if( ($elt->{gi} >= $XML::Twig::SPECIAL_GI) )
  { # sprint the children
    my $child= $elt->_first_child || "";
    while( $child)
    { $string.= $child->xml_text;
      } continue { $child= $child->_next_sibling; }
  }
  elsif( $elt->is_pCDATA) { $string .= $output_filter ? $output_filter->($elt->pcdata_xml_string)
    : $elt->pcdata_xml_string;
  }
  elsif( $elt->is_cdata) { $string .= $output_filter ? $output_filter->($elt->cdata_string)
    : $elt->cdata_string;

```

```

    }
elseif( $elt->is_ent)    { $string .= $elt->ent_string; }

return $string;
}

sub xml_text_only
{ return join ", map { $_->xml_text if( $_->is_text || $_->is_ent) } $_[0]->_children; }

# same as print but except... it does not print but rather returns the string
# if the second parameter is set then only the content is returned, not the
# start and end tags of the element (but the tags of the included elements are
# returned)

sub sprint
{ my $elt= shift;
  my( $old_pretty, $old_empty_tag_style);

  if( $_[0])
  { if( isa( $_[0], 'HASH'))
    { # "proper way, using a hashref for options
      my %args= XML::Twig::_normalize_args( %{shift()});
      if( defined $args{PrettyPrint}) { $old_pretty      = set_pretty_print( $args{PrettyPrint}); }
      if( defined $args{EmptyTags})  { $old_empty_tag_style = set_empty_tag_style( $args{EmptyTags}); }
    }
    else
    { # "old" way, just using the option name
      my @other_opt;
      foreach my $opt (@_)
      { if( exists $pretty_print_style{$opt}) { $old_pretty = set_pretty_print( $opt); }
        elsif( exists $empty_tag_style{$opt}) { $old_empty_tag_style = set_empty_tag_style( $opt); }
        else                                { push @other_opt, $opt; }
      }
      @_ = @other_opt;
    }
  }

  $xml_space_preserve= 1 if( ($elt->inherit_att( 'xml:space') || "") eq 'preserve');

  @sprint=();
  $elt->_sprint( @_);
  my $sprint= join( " ", @sprint);
  if( $output_filter) { $sprint= $output_filter->( $sprint); }

  if( ( ($pretty== $WRAPPED) || ($pretty==$INDENTEDC)) && !$xml_space_preserve)
  { $sprint= _wrap_text( $sprint); }
  $xml_space_preserve= 0;

```

```

    if( defined $old_pretty)      { set_pretty_print(
$old_pretty);      }
    if( defined $old_empty_tag_style) { set_empty_tag_style( $old_empty_tag_style); }

    return $sprint;
}

sub _wrap_text
{ my( $string)= @_;
  my $wrapped;
  foreach my $line (split /\n/, $string)
  { my( $initial_indent)= $line=~ m{^\s*});
    my $wrapped_line= Text::Wrap::wrap( " ", $initial_indent . $INDENT, $line) . "\n";

    # fix glitch with Text::wrap when the first line is long and does not include spaces
    # the first line ends up being too short by 2 chars, but we'll have to live with it!
    $wrapped_line=~ s{^\s*\n }{}s; # this prefix needs to be removed

    $wrapped .= $wrapped_line;
  }

  return $wrapped;
}

sub _sprint
{ my $elt= shift;
  my $no_tag= shift || 0;
  # in case there's some comments or PI's piggybacking

  if( $elt->{gi} >= $XML::Twig::SPECIAL_GI)
  {
    my $preserve= ($elt->att( 'xml:space')
|| ") eq 'preserve';
    $xml_space_preserve++ if $preserve;

    push @sprint, $elt->start_tag unless( $no_tag);

    # sprint the children
    my $child= $elt->_first_child;
    while( $child)
    { $child->_sprint;
      $child= $child->_next_sibling;
    }
    push @sprint, $elt->end_tag unless( $no_tag);
    $xml_space_preserve-- if $preserve;
  }
}

```

```

    }
else
    { push @sprint, $elt->{extra_data} if( $elt->{extra_data}) ;
      if( $elt->is_pcddata) { push @sprint, $elt->pcdata_xml_string; }
      elsif( $elt->is_cdata) { push @sprint, $elt->cdata_string; }
      elsif( $elt->is_pi) { if( ($pretty >= $INDENTED) && !$elt->parent->{contains_text}) { push @sprint, "\n"
. $INDENT x $elt->level; }
        push @sprint, $elt->pi_string;
      }
      elsif( $elt->is_comment) { if( ($pretty >= $INDENTED) && !$elt->parent->{contains_text})
{ push @sprint, "\n" . $INDENT x $elt->level; }
        push @sprint, $elt->comment_string;
      }
      elsif( $elt->is_ent) { push @sprint, $elt->ent_string; }
    }

    return;
  }

# just a shortcut to $elt->sprint( 1)
sub xml_string
{ my $elt= shift;
  isa( $_[0], 'HASH') ? $elt->sprint( shift(), 1) : $elt->sprint( 1);
}

sub pcddata_xml_string
{ my $elt= shift;
  if( defined( my $string= $elt->{pcdata}) )
  {
    if( ! $elt->_extra_data_in_pcddata)
    {
      $string=~ s/([$replaced_ents])/$XML::Twig::base_ent{$1}/g unless( !$replaced_ents || $keep_encoding ||
$elt->{asis});
      $string=~ s/{\Q}]>}{\]&gt;}g;
    }
    else
    { _gen_mark( $string); # used by _(un)?protect_extra_data
      foreach my $data (reverse @{$elt->_extra_data_in_pcddata})
      { my $substr=
substr( $string, $data->{offset});
        if( $keep_encoding || $elt->{asis})
        { substr( $string, $data->{offset}, 0, $data->{text}); }
        else
        { substr( $string, $data->{offset}, 0, _protect_extra_data( $data->{text})); }
      }
      unless( $keep_encoding || $elt->{asis})
      {
        $string=~ s/([$replaced_ents]){$XML::Twig::base_ent{$1}}g ;

```

```

        $string=~ s{\Q[]>}{[]&gt;}g;
        _unprotect_extra_data( $string);
    }
}
return $output_text_filter ? $output_text_filter->( $string) : $string;
}
else
{ return ""; }
}

{ my $mark;
my( %char2ent, %ent2char);
BEGIN
{ %char2ent= ( '<' => 'lt', '&' => 'amp', '>' => 'gt');
%ent2char= map { $char2ent{$_} => $_ } keys %char2ent;
}

# generate a unique mark (a string) not found in the string,
# used to mark
< and & in the extra data
sub _gen_mark
{ $mark="AAAA";
$mark++ while( index( $_[0], $mark) > -1);
return $mark;
}

sub _protect_extra_data
{ my( $extra_data)= @_;
$extra_data=~ s{([<&])}{:$mark:$char2ent{$1}:}g;
return $extra_data;
}

sub _unprotect_extra_data
{ $_[0]=~ s{:$mark:(\w+):}{ $ent2char{$1}}g; }

}

sub cdata_string
{ my $cdata= $_[0]->cdata;
unless( defined $cdata) { return ""; }
if( $remove_cdata)
{ $cdata=~ s/([$replaced_ents])/<XML::Twig::base_ent{$1}/g; }
else
{ $cdata= $CDATA_START . $cdata . $CDATA_END; }
return $cdata;
}

sub att_xml_string

```

```

{ my $elt= shift;
my $att= shift;

my $replace= $replaced_ents . "$quote\n\r\t";
if($_[0] && $_[0]->{escape_gt} && ($replace!~ m{>})) { $replace .=>'; }

if( defined( my $string= $elt->{att}->{$att}))
{ return _att_xml_string( $string, $replace); }
else
{ return "; }
}

# escaped xml string for an attribute value
sub _att_xml_string
{ my( $string, $escape)= @_ ;
if( !defined( $string)) { return "; }
if( $keep_encoding)
{ $string=~ s{$quote}{$XML::Twig::base_ent{$quote}}g;
}
else
{
if( $do_not_escape_amp_in_atts)
{ $escape=~ s{^}{}; # seems like the most backward compatible way to remove & from the list
$string=~ s{([$escape])}{$XML::Twig::base_ent{$1}}g;
$string=~ s{&(?!(w+|#d+|[xX][0-9a-fA-F]+);)}{&}; # dodgy: escape & that do not start an entity
}
else
{ $string=~ s{([$escape])}{$XML::Twig::base_ent{$1}}g;
$string=~ s{[Q]]>{[]&gt;}}g;
}
}

return $output_text_filter ? $output_text_filter->( $string) : $string;
}

sub ent_string
{ my $ent= shift;
my $ent_text= $ent->{ent};
my( $t, $el, $ent_string);
if(
$expand_external_entities
&& ($t= $ent->twig)
&& ($el= $t->entity_list)
&& ($ent_string= $el->{entities}->{$ent->ent_name}->{val})
)
{ return $ent_string; }
else
{ return $ent_text; }
}

```

```

}

# returns just the text, no tags, for an element
sub text
{ my( $elt, @options)= @_ ;

  if( @options && grep { lc( $_) eq 'no_recurse' } @options) { return $elt->text_only; }
  my $sep = (@options && grep { lc( $_) eq 'sep' } @options) ? ' ' : ";

  my $string;

  if( $elt->is_pCDATA) { return $elt->pCDATA . $sep; }
  elsif( $elt->is_cdata) { return $elt->cdata . $sep; }
  elsif( $elt->is_pi) { return $elt->pi_string . $sep; }
  elsif( $elt->is_comment) { return $elt->comment . $sep; }
  elsif( $elt->is_ent) { return $elt->ent . $sep ; }

  my $child= $elt->_first_child ||";
  while( $child)
  {
    my $child_text= $child->text(
@options);
    $string.= defined( $child_text) ? $sep . $child_text : ";
    } continue { $child= $child->_next_sibling; }

  unless( defined $string) { $string="; }

  return $output_text_filter ? $output_text_filter->( $string) : $string;
}

sub text_only
{ return join " ", map { $_->text if( $_->is_text || $_->is_ent) } $_[0]->_children; }

sub trimmed_text
{ my $elt= shift;
  my $text= $elt->text( @_);
  $text=~ s{\s+}{ }sg;
  $text=~ s{^\s*}{ };
  $text=~ s{\s*$}{ };
  return $text;
}

sub trim
{ my( $elt)= @_ ;
  my $pCDATA= $elt->first_descendant( $TEXT);
  (my $pCDATA_text= $pCDATA->text)=~ s{^\s+}{ }s;
  $pCDATA->set_text( $pCDATA_text);

```

```

$pcdata= $elt->last_descendant( $TEXT);
($pcdata_text= $pcdata->text)=~ s{\s+$}{};
$pcdata->set_text( $pcdata_text);
foreach my $pcdata ($elt->descendants( $TEXT))
{ ($pcdata_text= $pcdata->text)=~ s{\s+}{} }g;
$pcdata->set_text(
$pcdata_text);
}
return $elt;
}

```

remove cdata sections (turns them into regular pcddata) in an element

```

sub remove_cdata
{ my $elt= shift;
  foreach my $cdata ($elt->descendants_or_self( $CDATA))
  { if( $keep_encoding)
    { my $data= $cdata->cdata;
      $data=~ s{([&<""])}{$XML::Twig::base_ent{$1}}g;
      $cdata->set_pcddata( $data);
    }
    else
    { $cdata->set_pcddata( $cdata->cdata); }
    $cdata->set_gi( $PCDATA);
    undef $cdata->{cdata};
  }
}

```

```

sub _is_private { return _is_private_name( $_[0]->gi); }
sub _is_private_name { return $_[0]=~ m{^#(?!default:)}; }

```

} # end of block containing package globals (\$pretty_print, \$quotes, keep_encoding...)

merges consecutive #PCDATAs in an element

```

sub normalize
{ my( $elt)= @_ ;
  my @descendants= $elt->descendants( $PCDATA);
  while( my $desc= shift @descendants)
  { if( ! length $desc->{pcdata})
  { $desc->delete; next; }
  while( @descendants && $desc->_next_sibling && $desc->_next_sibling== $descendants[0])
  { my $to_merge= shift @descendants;
    $desc->merge_text( $to_merge);
  }
}
return $elt;
}

```



```

# SAX export methods
sub toSAX1
{ _toSAX(@_, \&_start_tag_data_SAX1, \&_end_tag_data_SAX1); }

sub toSAX2
{ _toSAX(@_, \&_start_tag_data_SAX2, \&_end_tag_data_SAX2); }

sub _toSAX
{ my( $elt, $handler, $start_tag_data, $end_tag_data)= @_;
  if( $elt->{gi} >= $XML::Twig::SPECIAL_GI)
  { my $data= $start_tag_data->( $elt);
    _start_prefix_mapping( $elt, $handler, $data);
    if( $data && (my $start_element = $handler->can( 'start_element'))
      { unless( $elt->_flushed) { $start_element->( $handler, $data); } }

    foreach my $child ( $elt->_children)
      { $child->_toSAX( $handler, $start_tag_data, $end_tag_data); }

    if( (my $data= $end_tag_data->( $elt)) && (my $end_element = $handler->can(
'end_element')) )
      { $end_element->( $handler, $data); }
      _end_prefix_mapping( $elt, $handler);
    }
  else # text or special element
  { if( $elt->is_pcdata && (my $characters= $handler->can( 'characters'))
    { $characters->( $handler, { Data => $elt->pcdata }); }
    elsif( $elt->is_cdata)
    { if( my $start_cdata= $handler->can( 'start_cdata'))
      { $start_cdata->( $handler); }
      if( my $characters= $handler->can( 'characters'))
      { $characters->( $handler, {Data => $elt->cdata }); }
      if( my $end_cdata= $handler->can( 'end_cdata'))
      { $end_cdata->( $handler); }
    }
    elsif( ($elt->is_pi) && (my $pi= $handler->can( 'processing_instruction'))
      { $pi->( $handler, { Target =>$elt->target, Data => $elt->data }); }
    elsif( ($elt->is_comment) && (my $comment= $handler->can( 'comment'))
      { $comment->( $handler, { Data => $elt->comment
    }); }
    elsif( ($elt->is_ent))
    {
      if( my $se= $handler->can( 'skipped_entity'))
      { $se->( $handler, { Name => $elt->ent_name }); }
      elsif( my $characters= $handler->can( 'characters'))
      { if( defined $elt->ent_string)
        { $characters->( $handler, {Data => $elt->ent_string}); }
        else

```

```

        { $characters->( $handler, {Data => $elt->ent_name}); }
    }
}

}
}

```

```

sub _start_tag_data_SAX1
{ my( $elt)= @_ ;
  my $name= $elt->gi;
  return if( $elt->_is_private);
  my $attributes={};
  my $atts= $elt->atts;
  while( my( $att, $value)= each %$atts)
    { $attributes->{$att}= $value unless( _is_private_name( $att)); }
  my $data= { Name => $name, Attributes => $attributes};
  return $data;
}

```

```

sub _end_tag_data_SAX1
{ my( $elt)= @_ ;
  return if( $elt->_is_private);
  return { Name => $elt->gi };
}

```

```

sub _start_tag_data_SAX2
{ my( $elt)= @_ ;
  my $data={};

  my $name= $elt->gi;
  return if( $elt->_is_private);
  $data->{Name} = $name;
  $data->{Prefix} = $elt->ns_prefix;
  $data->{LocalName} = $elt->local_name;
  $data->{NamespaceURI} = $elt->namespace;

  # save a copy of the data so we can re-use it for the end tag
  my %sax2_data= %$data;
  $elt->{twig_elt_SAX2_data}= \%sax2_data;

  # add the attributes
  $data->{Attributes}= $elt->_atts_to_SAX2;

  return $data;
}

```

```

sub _atts_to_SAX2
{ my $elt= shift;

```

```

my $SAX2_atts= {};
foreach my $att (keys %{$Selt->atts})
{
    next if( _is_private_name( $att));
    my $SAX2_att={};
    $SAX2_att->{Name}      = $att;
    $SAX2_att->{Prefix}    = _ns_prefix( $att);
    $SAX2_att->{LocalName} = _local_name( $att);
    $SAX2_att->{NamespaceURI} = $Selt->namespace( $SAX2_att->{Prefix});
    $SAX2_att->{Value}     = $Selt->att( $att);
    my $SAX2_att_name=
    "{$SAX2_att->{NamespaceURI}}{$SAX2_att->{LocalName}}";

    $SAX2_atts->{$SAX2_att_name}= $SAX2_att;
}
return $SAX2_atts;
}

sub _start_prefix_mapping
{ my( $elt, $handler, $data)= @_ ;
  if( my $start_prefix_mapping= $handler->can( 'start_prefix_mapping')
    and my @new_prefix_mappings= grep { /\^\{[\^]*\}xmlns/ || /\^\{$XMLNS_URI\}/ } keys %{$data->{Attributes}}
  )
  { foreach my $prefix (@new_prefix_mappings)
    { my $prefix_string= $data->{Attributes}->{$prefix}->{LocalName};
      if( $prefix_string eq 'xmlns') { $prefix_string=""; }
      my $prefix_data=
      { Prefix      => $prefix_string,
        NamespaceURI => $data->{Attributes}->{$prefix}->{Value}
      };
      $start_prefix_mapping->( $handler, $prefix_data);
      $Selt->{twig_end_prefix_mapping} ||= [];
      push @{$Selt->{twig_end_prefix_mapping}}, $prefix_string;
    }
  }
}

sub _end_prefix_mapping
{ my(
  $elt, $handler)= @_ ;
  if( my $end_prefix_mapping= $handler->can( 'end_prefix_mapping'))
  { foreach my $prefix (@{$Selt->{twig_end_prefix_mapping}})
    { $end_prefix_mapping->( $handler, { Prefix => $prefix } ); }
  }
}

sub _end_tag_data_SAX2

```

```

{ my( $elt)= @_;
  return if( $elt->_is_private);
  return $elt->{twig_elt_SAX2_data};
}

sub contains_text
{ my $elt= shift;
  my $child= $elt->_first_child;
  while ($child)
    { return 1 if( $child->is_text || $child->is_ent);
      $child= $child->_next_sibling;
    }
  return 0;
}

# creates a single pcddata element containing the text as child of the element
# options:
# - force_pcddata: when set to a true value forces the text to be in a #PCDATA
#               even if the original element was a #CDATA
sub set_text
{ my( $elt, $string, %option)= @_;

  if( $elt->gi eq $PCDATA)
    { return $elt->set_pcddata( $string); }
  elsif( $elt->gi eq $CDATA)
    { if( $option{force_pcddata})
      { $elt->set_gi( $PCDATA);
        $elt->_set_cdata("");
        return $elt->set_pcddata( $string);
      }
      else
      { $elt->_set_cdata( $string);
        return $string;
      }
    }
  elsif( $elt->contains_a_single( $PCDATA) )
    { # optimized so we have a slight chance of not losing embedded comments and pi's
      $elt->_first_child->set_pcddata( $string);
      return $elt;
    }

  foreach my $child (@{ $elt->_children})
    { $child->delete; }

  my $pcdata= $elt->_new_pcddata( $string);
  $pcdata->paste( $elt);

  $elt->set_not_empty;
}

```

```

    return $elt;
}

# set the content of an element from a list of strings and elements
sub set_content
{ my $elt= shift;

    return $elt unless defined $_[0];

    # attributes can be given as a hash (passed by ref)
    if( ref $_[0] eq 'HASH')
    { my $atts= shift;
      $elt->del_atts; # usually useless but better safe than sorry
      $elt->set_atts(
$atts);
      return $elt unless defined $_[0];
    }

    # check next argument for #EMPTY
    if( !(ref $_[0]) && ($_[0] eq $EMPTY) )
    { $elt->set_empty; return $elt; }

    # case where we really want to do a set_text, the element is '#PCDATA'
    # or contains a single PCDATA and we only want to add text in it
    if( ($elt->gi eq $PCDATA || $elt->contains_a_single( $PCDATA))
        && (@_ == 1) && !(ref $_[0]))
    { $elt->set_text( $_[0]);
      return $elt;
    }
    elsif( ($elt->gi eq $CDATA) && (@_ == 1) && !(ref $_[0]))
    { $elt->_set_cdata( $_[0]);
      return $elt;
    }

    # delete the children
    foreach my $child (@{[$elt->_children]})
    { $child->delete; }

    if( @_ ) { $elt->set_not_empty; }

    foreach my $child (@_)
    { if( ref( $child) && isa( $child, 'XML::Twig::Elt'))
      { # argument is an element
        $child->paste( 'last_child', $elt);
      }
      else
      { # argument is a string

```

```

if( (my $pcdata= $elt->_last_child) && $elt->_last_child->is_pcddata)
    { # previous child is also pcddata: just concatenate
      $pcdata->set_pcddata( $pcdata->pcdata . $child)
    }
else
    { # previous child is not a string: create a new pcddata element
      $pcdata= $elt->_new_pcddata( $child);
      $pcdata->paste( 'last_child', $elt);
    }
}

}

return $elt;
}

# inserts an element (whose gi is given) as child of the element
# all children of the element are now children of the new element
# returns the new element
sub insert
{ my ($elt, @args)= @_ ;
  # first cut the children
  my @children= $elt->_children;
  foreach my $child (@children)
    { $child->cut; }
  # insert elements
  while( my $gi= shift @args)
    { my $new_elt= $elt->new( $gi);
      # add attributes if needed
      if( defined( $args[0]) && ( isa( $args[0], 'HASH')) )
        { $new_elt->set_atts(
shift @args); }
      # paste the element
      $new_elt->paste( $elt);
      $elt->set_not_empty;
      $elt= $new_elt;
    }
  # paste back the children
  foreach my $child (@children)
    { $child->paste( 'last_child', $elt); }
  return $elt;
}

# insert a new element
# $elt->insert_new_element( $opt_position, $gi, $opt_atts_hash, @opt_content);
# the element is created with the same syntax as new
# position is the same as in paste, first_child by default

```

```

sub insert_new_elt
{ my $elt= shift;
  my $position= $_[0];
  if( ($position eq 'before') || ($position eq 'after')
    || ($position eq 'first_child') || ($position eq 'last_child'))
  { shift; }
  else
  { $position= 'first_child'; }

  my $new_elt= $elt->new( @_);
  $new_elt->paste( $position, $elt);

  #if( defined $new_elt->id) { $new_elt->set_id( $new_elt->id); }

  return $new_elt;
}

# wraps an element in elements which gi's are given as arguments
#
$elt->wrap_in( 'td', 'tr', 'table') wraps the element as a single
# cell in a table for example
# returns the new element
sub wrap_in
{ my $elt= shift;
  while( my $gi = shift @_ )
  { my $new_elt = $elt->new( $gi);
    if( $elt->{twig_current})
    { my $t= $elt->twig;
      $t->{twig_current}= $new_elt;
      $elt->del_twig_current;
      $new_elt->set_twig_current;
    }

    if( my $parent= $elt->_parent)
    { $new_elt->set_parent( $parent);
      if( $parent->_first_child == $elt) { $parent->set_first_child( $new_elt); }
      if( $parent->_last_child == $elt) { $parent->set_last_child( $new_elt); }
    }
    else
    { # wrapping the root
      my $twig= $elt->twig;
      if( $twig && $twig->root && ($twig->root eq $elt) )
      { $twig->set_root( $new_elt);
      }
    }
  }

  if( my $prev_sibling= $elt->_prev_sibling)
  { $new_elt->set_prev_sibling(

```

```

$prev_sibling);
    $prev_sibling->set_next_sibling( $new_elt);
}

if( my $next_sibling= $elt->_next_sibling)
{ $new_elt->set_next_sibling( $next_sibling);
  $next_sibling->set_prev_sibling( $new_elt);
}
$new_elt->set_first_child( $elt);
$new_elt->set_last_child( $elt);

$elt->set_parent( $new_elt);
$elt->set_prev_sibling( undef);
$elt->set_next_sibling( undef);

# add the attributes if the next argument is a hash ref
if( defined( $_[0]) && (isa( $_[0], 'HASH')) )
{ $new_elt->set_atts( shift @_); }

$elt= $new_elt;
}

return $elt;
}

sub replace
{ my( $elt, $ref)= @_;

if( $elt->_parent) { $elt->cut; }

if( my $parent= $ref->_parent)
{ $elt->set_parent( $parent);
  if( $parent->_first_child == $ref) { $parent->set_first_child( $elt); }
  if( $parent->_last_child == $ref) { $parent->set_last_child( $elt); }

}
elsif( $ref->twig && $ref == $ref->twig->root)
{ $ref->twig->set_root( $elt); }

if( my $prev_sibling= $ref->_prev_sibling)
{ $elt->set_prev_sibling( $prev_sibling);
  $prev_sibling->set_next_sibling( $elt);
}
if( my $next_sibling= $ref->_next_sibling)
{ $elt->set_next_sibling( $next_sibling);
  $next_sibling->set_prev_sibling( $elt);
}
}

```



```

    $ref->set_parent( undef);
    $ref->set_prev_sibling( undef);
    $ref->set_next_sibling( undef);
    return $ref;
}

```

```

sub replace_with
{ my $ref= shift;
  my $elt= shift;
  $elt->replace( $ref);
  foreach my $new_elt (reverse @_ )
    { $new_elt->paste( after => $elt); }
  return $elt;
}

```

move an element, same syntax as paste, except the element is first cut

```

sub move
{ my $elt= shift;
  $elt->cut;
  $elt->paste( @_);
  return $elt;
}

```

adds a prefix to an element, creating a pcddata child if needed

```

sub prefix
{ my ($elt, $prefix, $option)= @_ ;
  my $asis=
($option && ($option eq 'asis')) ? 1 : 0;
  if( $elt->is_pcddata
    && (($asis && $elt->{asis}) || (!$asis && ! $elt->{asis}))
  )
  { $elt->set_pcddata( $prefix . $elt->pcdata); }
  elsif( $elt->_first_child && $elt->_first_child->is_pcddata
    && ( ($asis && $elt->_first_child->{asis})
      || (!$asis && ! $elt->_first_child->{asis}))
  )
  {
    $elt->_first_child->set_pcddata( $prefix . $elt->_first_child->pcdata);
  }
  else
  { my $new_elt= $elt->_new_pcddata( $prefix);
    my $pos= $elt->is_pcddata ? 'before' : 'first_child';
    $new_elt->paste( $pos => $elt);
    if( $asis) { $new_elt->set_asis; }
  }
  return $elt;
}

```

```

}

# adds a suffix to an element, creating a pcddata child if needed
sub suffix
{ my ($elt, $suffix, $option)= @_ ;
  my $asis= ($option && ($option eq 'asis')) ? 1 : 0;
  if( $elt->is_pcddata
      && (($asis && $elt->{asis}) || (!$asis && ! $elt->{asis}))
  )
  { $elt->set_pcddata(
$elt->pcdata . $suffix); }
  elsif( $elt->_last_child && $elt->_last_child->is_pcddata
      && ( ($asis && $elt->_last_child->{asis})
          || (!$asis && ! $elt->_last_child->{asis}))
  )
  { $elt->_last_child->set_pcddata( $elt->_last_child->pcdata . $suffix); }
  else
  { my $new_elt= $elt->_new_pcddata( $suffix);
    my $pos= $elt->is_pcddata ? 'after' : 'last_child';
    $new_elt->paste( $pos => $elt);
    if( $asis) { $new_elt->set_asis; }
  }
  return $elt;
}

```

```

# create a path to an element ('/root/.../gi)
sub path
{ my $elt= shift;
  my @context= ( $elt, $elt->ancestors);
  return "/" . join( "/", reverse map {$_->gi} @context);
}

sub xpath
{ my $elt= shift;
  my $xpath;
  foreach my $ancestor (reverse $elt->ancestors_or_self)
  { my $gi= $ancestor->gi;
    $xpath.= "$gi";
    my $index= $ancestor->prev_siblings( $gi) + 1;
    unless( ($index == 1) && !$ancestor->next_sibling( $gi))
    { $xpath.=
"[$index]"; }
  }
  return $xpath;
}

```

methods used mainly by wrap_children

```

# return a string with the
# for an element <foo><elt att="val">...</elt><elt2/><elt>...</elt></foo>
# returns '<elt att="val"><elt2><elt>'
sub _stringify_struct
{ my( $elt, %opt)= @_ ;
  my $string="";
  my $pretty_print= set_pretty_print( 'none');
  foreach my $child ($elt->_children)
    { $child->add_id; $string .= $child->start_tag( { escape_gt => 1 }) ||"; }
  set_pretty_print( $pretty_print);
  return $string;
}

# wrap a series of elements in a new one
sub _wrap_range
{ my $elt= shift;
  my $gi= shift;
  my $atts= isa( $_[0], 'HASH') ? shift : undef;
  my $range= shift; # the string with the tags to wrap

  my $t= $elt->twig;

  # get the tags to wrap
  my @to_wrap;
  while( $range=~ m{<\w+\s+[\^>]*id=("[^"]*"|'[^']*')[\^>]*>}g)
    { push @to_wrap, $t->elt_id( substr( $1, 1, -1)); }

  return " unless @to_wrap;

  my $to_wrap= shift @to_wrap;
  my %atts= %$atts;
  my $new_elt= $to_wrap->wrap_in( $gi, \%atts);
  $_->move( last_child => $new_elt) foreach (@to_wrap);

  return "";
}

# wrap children matching a regexp in a new element
sub wrap_children
{ my( $elt, $regexp, $gi, $atts)= @_ ;

  $atts ||={};

  my $elt_as_string= $elt->_stringify_struct; # stringify the elt structure
  $regexp=~ s{(<[\^>]*>)}{_match_expr( $1)}eg; # in the regexp, replace gi's by the proper regexp
  $elt_as_string=~ s{($regexp)}{$elt->_wrap_range( $gi, $atts, $1)}eg; # then do the actual replace

  return $elt;
}

```

```
}
```

```
sub _match_expr
{ my $tag= shift;
  my( $gi, %atts)= XML::Twig::_parse_start_tag( $tag);
  return _match_tag( $gi, %atts);
}
```

```
sub _match_tag
{ my( $elt, %atts)= @_;
  my $string= "<$elt\b";
  foreach my $key (sort keys %atts)
  { my $val= qq{\Q$atts{$key}\E};
    $string.= qq{[^\>]*$key(?:"$val"|"'$val'")};
  }
  $string.= qq{[^\>]*>};
  return "(?:$string)";
}
```

```
sub field_to_att
{ my( $elt, $cond, $att)= @_;
  $att ||= $cond;
  my $child= $elt->first_child( $cond) or return undef;
  $elt->set_att( $att => $child->text);
  $child->cut;
  return $elt;
}
```

```
sub att_to_field
{ my( $elt, $att, $tag)= @_;
  $tag ||= $att;
  my $child= $elt->insert_new_elt( first_child => $tag, $elt->att( $att));
  $elt->del_att( $att);
  return $elt;
}
```

```
# sort children methods
```

```
sub sort_children_on_field
{ my $elt = shift;
  my $field = shift;
  my $get_key= sub { return $_[0]->field( $field) };
  return $elt->sort_children( $get_key, @_);
}
```

```
sub sort_children_on_att
{ my $elt = shift;
```

```

my $att = shift;
my $get_key= sub { return $_[0]->att( $att) };
return $elt->sort_children( $get_key, @_);
}

sub sort_children_on_value
{ my $elt = shift;
  #my $get_key= eval qq{ sub { $NO_WARNINGS; return $_[0]->text } };
  my $get_key= \&text;
  return $elt->sort_children( $get_key, @_);
}

sub sort_children
{ my( $elt, $get_key,
  %opt)=@_;
  $opt{order} ||= 'normal';
  $opt{type} ||= 'alpha';
  my( $par_a, $par_b)= ($opt{order} eq 'reverse') ? qw( b a) : qw( a b) ;
  my $op= ($opt{type} eq 'numeric') ? '<=>' : 'cmp' ;
  my @children= $elt->cut_children;
  if( $opt{type} eq 'numeric')
  { @children= map { $_->[1] }
    sort { $a->[0] <=> $b->[0] }
    map { [ $get_key->( $_), $_ ] } @children;
  }
  elsif( $opt{type} eq 'alpha')
  { @children= map { $_->[1] }
    sort { $a->[0] cmp $b->[0] }
    map { [ $get_key->( $_), $_ ] } @children;
  }
  else
  { croak "wrong sort type '$opt{type}', should be either 'alpha' or 'numeric'"; }

  @children= reverse @children if( $opt{order} eq 'reverse');
  $elt->set_content( @children);
}

# comparison methods

sub before
{ my( $a, $b)=@_;
  if( $a->cmp( $b) == -1) { return 1; } else { return 0; }
}

sub after
{ my( $a, $b)=@_;
  if( $a->cmp( $b) ==

```

```
1) { return 1; } else { return 0; }  
}
```

```
sub lt  
{ my( $a, $b)=@_;  
  return 1 if( $a->cmp( $b) == -1);  
  return 0;  
}
```

```
sub le  
{ my( $a, $b)=@_;  
  return 1 unless( $a->cmp( $b) == 1);  
  return 0;  
}
```

```
sub gt  
{ my( $a, $b)=@_;  
  return 1 if( $a->cmp( $b) == 1);  
  return 0;  
}
```

```
sub ge  
{ my( $a, $b)=@_;  
  return 1 unless( $a->cmp( $b) == -1);  
  return 0;  
}
```

```
sub cmp  
{ my( $a, $b)=@_;
```

```
  # easy cases  
  return 0 if( $a == $b);  
  return 1 if( $a->in($b)); # a in b => a starts after b  
  return -1 if( $b->in($a)); # b in a => a starts before b
```

```
  # ancestors does not include the element itself
```

```
  my @a_pile= ($a, $a->ancestors);  
  my @b_pile= ($b, $b->ancestors);
```

```
  # the 2 elements are not in the same twig  
  return undef unless( $a_pile[-1] == $b_pile[-1]);
```

```
  # find the first non common ancestors (they are siblings)
```

```
  my $a_anc= pop @a_pile;  
  my $b_anc= pop @b_pile;
```

```
  while( $a_anc == $b_anc)
```

```

    { $a_anc= pop @a_pile;

$b_anc= pop @b_pile;
    }

# from there move left and right and figure out the order
my( $a_prev, $a_next, $b_prev, $b_next)= ($a_anc, $a_anc, $b_anc, $b_anc);
while()
{
    { $a_prev= $a_prev->_prev_sibling || return( -1);
      return 1 if( $a_prev == $b_next);
      $a_next= $a_next->_next_sibling || return( 1);
      return -1 if( $a_next == $b_prev);
      $b_prev= $b_prev->_prev_sibling || return( 1);
      return -1 if( $b_prev == $a_next);
      $b_next= $b_next->_next_sibling || return( -1);
      return 1 if( $b_next == $a_prev);
    }
}

sub _dump
{ my( $elt, $option)= @_ ;

    my $atts    = defined $option->{atts}    ? $option->{atts}    : 1;
    my $extra    = defined $option->{extra}    ? $option->{extra}    : 0;
    my $short_text = defined $option->{short_text} ? $option->{short_text} : 40;

    my $sp= '|';
    my $indent= $sp x $elt->level;
    my $indent_sp= ' ' x $elt->level;

    my $dump="";
    if(
$elt->is_elt)
    {
        $dump .= $indent . '|' . $elt->gi;

        if( $atts && (my @atts= $elt->att_names) )
            { $dump .= ' ' . join( ' ', map { qq{$$_=""} . $elt->att( $_) . qq{""} } @atts); }

        $dump .= "\n";
        if( $extra ) { $dump .= $elt->_dump_extra_data( $indent, $indent_sp, $short_text); }
        $dump .= join( "", map { $_->_dump( $option) } $elt->_children);
    }
    else
    {
        if( $elt->is_pcddata)
            { $dump .= "$indent|PCDATA: " . _short_text( $elt->pcdata, $short_text) . "\n" }
        elsif( $elt->is_ent)

```

```

    { $dump .= "$indent|-ENTITY: " . _short_text( $elt->ent, $short_text) . "\n" }
    elsif( $elt->is_cdata)
    { $dump .= "$indent|-CDATA: " . _short_text( $elt->cdata, $short_text) . "\n" }
    elsif( $elt->is_comment)
    { $dump .= "$indent|-COMMENT: " . _short_text( $elt->comment_string, $short_text) . "\n" }
    elsif( $elt->is_pi)
    { $dump .= "$indent|-PI:
    " . $elt->target . " - " . _short_text( $elt->data, $short_text) . "\n" }
    if( $extra) { $dump .= $elt->_dump_extra_data( $indent, $indent_sp, $short_text); }
    }
    return $dump;
}

sub _dump_extra_data
{ my( $elt, $indent, $indent_sp, $short_text)= @_;
  my $dump="";
  if( $elt->extra_data)
  { my $extra_data = $indent . "|-- (cpi before) " . _short_text( $elt->extra_data, $short_text) . """;
    $extra_data=~ s{\n}{$indent_sp}g;
    $dump .= $extra_data . "\n";
  }
  if( $elt->_extra_data_in_pcddata)
  { foreach my $data ( @{$elt->_extra_data_in_pcddata})
    { my $extra_data = $indent . "|-- (cpi offset $data->{offset}) " . _short_text( $data->{text}, $short_text) . """;
      $extra_data=~ s{\n}{$indent_sp}g;
      $dump .= $extra_data . "\n";
    }
  }
  if( $elt->_extra_data_before_end_tag)
  { my $extra_data = $indent . "|-- (cpi end) " . _short_text( $elt->_extra_data_before_end_tag,
$short_text) . """;
    $extra_data=~ s{\n}{$indent_sp}g;
    $dump .= $extra_data . "\n";
  }
  return $dump;
}

sub _short_text
{ my( $string, $length)= @_;
  if( !$length || (length( $string) < $length) ) { return $string; }
  my $l1= (length( $string) -5) /2;
  my $l2= length( $string) - ($l1 + 5);
  return substr( $string, 0, $l1) . ' ... ' . substr( $string, -$l2);
}

sub _and { return _join_defined( ' && ', @_); }

```



```
sub _join_defined { return join( shift(), grep { $_ } @_); }
```

```
1;
```

```
__END__
```

```
=head1 NAME
```

XML::Twig - A perl module for processing huge XML documents in tree mode.

```
=head1 SYNOPSIS
```

Note that this documentation is intended as a reference to the module.

Complete docs, including a tutorial, examples, an easier to use HTML version, a quick reference card and a FAQ are available at L<<http://www.xmltwig.org/xmltwig>>

Small documents (loaded in memory as a tree):

```
my $twig=XML::Twig->new(); # create the twig
$twig->parsefile( 'doc.xml');
# build it
my _process( $twig);      # use twig methods to process it
$twig->print;              # output the twig
```

Huge documents (processed in combined stream/tree mode):

```
# at most one div will be loaded in memory
my $twig=XML::Twig->new(
  twig_handlers =>
    { title => sub { $_->set_tag( 'h2') }, # change title tags to h2
      # $_ is the current element
    para  => sub { $_->set_tag( 'p') }, # change para to p
    hidden => sub { $_->delete; }, # remove hidden elements
    list  => \&my_list_process,      # process list elements
    div   => sub { $_[0]->flush; }, # output and free memory
  },
  pretty_print => 'indented',      # output will be nicely formatted
  empty_tags  => 'html',           # outputs <empty_tag />
);
$twig->parsefile( 'my_big.xml');
```

```
sub my_list_process
{ my( $twig, $list)= @_;
  #
  ...
}
```

See L<XML::Twig 101/XML::Twig 101> for other ways to use the module, as a

filter for example.

```
=encoding utf8 # > perl 5.10.0
```

```
=head1 DESCRIPTION
```

This module provides a way to process XML documents. It is build on top of C<XML::Parser>.

The module offers a tree interface to the document, while allowing you to output the parts of it that have been completely processed.

It allows minimal resource (CPU and memory) usage by building the tree only for the parts of the documents that need actual processing, through the use of the C<L<twig_roots> > and C<L<twig_print_outside_roots> > options. The C<L<finish> > and C<L<finish_print> > methods also help to increase performances.

XML::Twig tries to make simple things easy so it tries its best to takes care of a lot of the (usually) annoying (but sometimes necessary) features that come with XML and XML::Parser.

```
=head1 TOOLS
```

XML::Twig comes with a few command-line utilities:

```
=head2 xml_pp - xml pretty-printer
```

XML pretty
printer using XML::Twig

```
=head2 xml_grep - grep XML files looking for specific elements
```

C<xml_grep> does a grep on XML files. Instead of using regular expressions it uses XPath expressions (in fact the subset of XPath supported by XML::Twig).

```
=head2 xml_split - cut a big XML file into smaller chunks
```

C<xml_split> takes a (presumably big) XML file and split it in several smaller files, based on various criteria (level in the tree, size or an XPath expression)

```
=head2 xml_merge - merge back XML files split with xml_split
```

C<xml_merge> takes several xml files that have been split using C<xml_split> and recreates a single file.

=head2 xml_spellcheck - spellcheck XML files

C<xml_spellcheck> lets you spell check the content of an XML file. It extracts the text (the content of elements and optionally of attributes), call a spell checker on it and then recreates the XML document.

=head1 XML::Twig 101

XML::Twig can be used either on "small" XML documents (that fit in memory) or on huge ones, by processing parts of the document and outputting or discarding them once they are processed.

=head2 Loading an XML document and processing it

```
my $t= XML::Twig->new();
$t->parse( '<d><title>title</title><para>p 1</para><para>p 2</para></d>');
my $root= $t->root;
$root->set_tag( 'html');          # change doc to html
$title= $root->first_child( 'title'); # get the title
$title->set_tag( 'h1');           # turn it into h1
my @para= $root->children( 'para'); # get the para children
foreach my $para (@para)
{ $para->set_tag( 'p'); }        # turn them into p
$t->print;                       # output the document
```

Other useful methods include:

L<att>: C<< \$elt->att('foo') >> return the C<foo> attribute for an element,

L<set_att> : C<< \$elt->set_att(foo => "bar") >> sets the C<foo> attribute to the C<bar> value,

L<next_sibling>: C<< \$elt->next_sibling >> return the next sibling in the document (in the example C<< \$title->next_sibling >> is the first

C<para>, you can also (and actually should) use C<< \$elt->next_sibling('para') >> to get it

The document can also be transformed through the use of the L<cut>, L<copy>, L<paste> and L<move> methods:
C<< \$title->cut; \$title->paste(after => \$p); >> for example

And much, much more, see L<XML::Twig::Elt/XML::Twig::Elt>.

=head2 Processing an XML document chunk by chunk

One of the strengths of XML::Twig is that it let you work with files that do not fit in memory (BTW storing an XML document in memory as a tree is quite memory-expensive, the expansion factor being often around 10).

To do this you can define handlers, that will be called once a specific element has been completely parsed. In these handlers you can access the element and process it as you see fit, using the navigation and the cut-n-paste methods, plus lots of convenient ones like C<L<prefix> >. Once the element is completely processed you can then C<L<flush> > it, which will output it and free the memory. You can also C<L<purge> > it if you don't need to output it (if you are just extracting some data from the document for example). The handler will be called again once the next relevant element has been parsed.

```
my $t= XML::Twig->new( twig_handlers =>
    { section => \&section,
      para  => sub { $_->set_tag( 'p'); }
    },
);
$t->parsefile( 'doc.xml');

# the handler is called once a section is completely parsed, ie when
# the end tag for section is found, it receives the twig itself and
# the element (including all its sub-elements) as arguments
sub section
{ my( $t, $section)= @_;    # arguments for all twig_handlers
  $section->set_tag( 'div'); # change the tag name
  # let's use the attribute nb as a prefix to the title
  my $title= $section->first_child( 'title'); # find the title
  my $nb= $title->att( 'nb'); # get the attribute

  $title->prefix( "$nb - "); # easy isn't it?
  $section->flush;          # outputs the section and frees memory
}
```

There is of course more to it: you can trigger handlers on more elaborate conditions than just the name of the element, C<section/title> for example.

```
my $t= XML::Twig->new( twig_handlers =>
    { 'section/title' => sub { $_->print } }
);
->parsefile( 'doc.xml');
```

Here `C<< sub { $_->print } >>` simply prints the current element (`C<$_>` is aliased to the element in the handler).

You can also trigger a handler on a test on an attribute:

```
my $t= XML::Twig->new( twig_handlers =>
    { 'section[@level="1"]' => sub { $_->print } }
    );
->parsefile( 'doc.xml');
```

You can also use `C<L<start_tag_handlers> >` to process an element as soon as the start tag is found. Besides `C<L<prefix> >` you can also use `C<L<suffix> >`,

=head2 Processing just parts
of an XML document

The `twig_roots` mode builds only the required sub-trees from the document. Anything outside of the twig roots will just be ignored:

```
my $t= XML::Twig->new(
    # the twig will include just the root and selected titles
    twig_roots => { 'section/title' => \&print_n_purge,
                   'annex/title' => \&print_n_purge
    }
    );
$t->parsefile( 'doc.xml');
```

```
sub print_n_purge
{ my( $t, $elt)= @_ ;
  print $elt->text; # print the text (including sub-element texts)
  $t->purge;       # frees the memory
}
```

You can use that mode when you want to process parts of a documents but are not interested in the rest and you don't want to pay the price, either in time or memory, to build the tree for the it.

=head2 Building an XML filter

You can combine the `C<twig_roots>` and the `C<twig_print_outside_roots>` options to build filters, which let you modify selected elements and will output the rest of the document as is.

This would convert prices in \$ to prices in Euro in a document:

```

my $t= XML::Twig->new(
    twig_roots => { 'price' => \&convert, }, # process prices
    twig_print_outside_roots => 1,          # print the rest
);
$t->parsefile( 'doc.xml');

sub convert
{ my( $t, $price)= @_ ;
  my $currency= $price->att( 'currency');    # get the currency
  if( $currency eq 'USD')
  { $usd_price= $price->text;                # get the price
    # %rate is just a conversion table
    my $euro_price= $usd_price * $rate{usd2euro};
    $price->set_text( $euro_price);          # set the new price
    $price->set_att( currency => 'EUR');     # don't forget this!
  }
  $price->print;                            # output the price
}

```

=head2 XML::Twig and various versions of Perl, XML::Parser and expat:

XML::Twig is a lot more sensitive to variations
in versions of perl,
XML::Parser and expat than to the OS, so this should cover some
reasonable configurations.

The "recommended configuration" is perl 5.8.3+ (for good Unicode
support), XML::Parser 2.31+ and expat 1.95.5+

See L<<http://testers.cpan.org/search?request=dist&dist=XML-Twig>> for the
CPAN testers reports on XML::Twig, which list all tested configurations.

An Atom feed of the CPAN Testers results is available at
L<http://xmlltwig.org/rss/twig_testers.rss>

Finally:

=over 4

=item XML::Twig does B<NOT> work with expat 1.95.4

=item XML::Twig only works with XML::Parser 2.27 in perl 5.6.*

Note that I can't compile XML::Parser 2.27 anymore, so I can't guarantee
that it still works

=item XML::Parser 2.28 does not really work

=back

When in doubt, upgrade expat, XML::Parser and Scalar::Util

Finally, for some optional features, XML::Twig depends on some additional modules. The complete list, which depends somewhat on the version of Perl that you are running, is given by running `C<t/zz_dump_config.t>`

=head1 Simplifying XML processing

=over 4

=item Whitespaces

Whitespaces that look non-significant are discarded, this behaviour can be controlled using the `C<L<keep_spaces> >`, `C<L<keep_spaces_in> >` and `C<L<discard_spaces_in> >` options.

=item Encoding

You can specify that you want the output in the same encoding as the input (provided you have valid XML, which means you have to specify the encoding either in the document or when you create the Twig object) using the `C<L<keep_encoding> >` option

You can also use `C<L<output_encoding>>` to convert the internal UTF-8 format to the required encoding.

=item Comments and Processing Instructions (PI)

Comments and PI's can be hidden from the processing, but still appear in the output (they are carried by the "real" element closer to them)

=item Pretty Printing

XML::Twig can output the document pretty printed so it is easier to read for us humans.

=item Surviving an untimely death

XML parsers are supposed to react violently when fed improper XML. XML::Parser just dies.

XML::Twig provides the `C<L<safe_parse> >` and the `C<L<safe_parsefile> >` methods which wrap the parse in an eval

and return either the parsed twig or 0 in case of failure.

=item Private attributes

Attributes with a name starting with # (illegal in XML) will not be output, so you can safely use them to store temporary values during processing. Note that you can store anything in a private attribute, not just text, it's just a regular Perl variable, so a reference to an object or a huge data structure is perfectly fine.

=back

=head1 CLASSES

XML::Twig uses a very limited number of classes. The ones you are most likely to use are C<L<XML::Twig>> of course, which represents a complete XML document, including the document itself (the root of the document itself is C<L<root>>), its handlers, its input or output filters... The other main class is C<L<XML::Twig::Elt>>, which models an XML element. Element

here has a very wide definition: it can be a regular element, or but also text, with an element C<L<tag>> of C<#PCDATA> (or C<#CDATA>), an entity (tag is C<#ENT>), a Processing Instruction (C<#PI>), a comment (C<#COMMENT>).

Those are the 2 commonly used classes.

You might want to look the C<L<elt_class>> option if you want to subclass C<XML::Twig::Elt>.

Attributes are just attached to their parent element, they are not objects per se. (Please use the provided methods C<L<att>> and C<L<set_att>> to access them, if you access them as a hash, then your code becomes implementation dependent and might break in the future).

Other classes that are seldom used are C<L<XML::Twig::Entity_list>> and C<L<XML::Twig::Entity>>.

If you use C<L<XML::Twig::XPath>> instead of C<XML::Twig>, elements are then created as C<L<XML::Twig::XPath::Elt>>

=head1 METHODS

=head2 XML::Twig

A twig is a subclass of XML::Parser, so all XML::Parser methods can be called on a twig object, including parse and parsefile.

C<setHandlers>

on the other hand cannot be used, see C<L<BUGS>>

=over 4

=item new

This is a class method, the constructor for XML::Twig. Options are passed as keyword value pairs. Recognized options are the same as XML::Parser, plus some (in fact a lot!) XML::Twig specifics.

New Options:

=over 4

=item twig_handlers

This argument consists of a hash C<{ expression => \&handler}> where expression is an XPath-like expression (+ some others).

XPath expressions are limited to using the child and descendant axis (indeed you can't specify an axis), and predicates cannot be nested. You can use the C<string>, or C<< string(<tag>) >> function (except in C<twig_roots> triggers).

Additionally you can use regexps (/ delimited) to match attribute and string values.

Examples:

```
foo
foo/bar
foo//bar
/foo/bar
/foo//bar
/foo/bar[@att1 = "val1" and @att2 = "val2"]/baz[@a >= 1]
foo[string()=~ /^duh!+/]
/foo[string(bar)=~ /\d+/]/baz[@att != 3]
```

#CDATA can be used
to call a handler for a CDATA section.
#COMMENT can be used to call a handler for comments

Some additional (non-XPath) expressions are also provided for convenience:

=over 4

=item processing instructions

C<'?'> or C<'#PI'> triggers the handler for any processing instruction,
and C<< '?<target>' >> or C<< '#PI <target>' >> triggers a handler for processing
instruction with the given target(ex: C<'#PI xmlstylesheet'>).

=item level(<level>)

Triggers the handler on any element at that level in the tree (root is level 1)

=item _all_

Triggers the handler for B<all> elements in the tree

=item _default_

Triggers the handler for each element that does NOT have any other handler.

=back

Expressions are evaluated against the input document.

Which means that even if you have changed the tag of an element (changing the tag of a parent element from a handler for example) the change will not impact the expression evaluation. There is an exception to this: "private" attributes (which name start with a '#', and can only be created during the parsing, as they are not valid XML) are checked against the current twig.

Handlers are triggered in fixed order, sorted by their type (xpath expressions first, then regexps, then level), then by whether they specify a full path (starting at the root element) or not, then by number of steps in the expression, then number of predicates, then number of tests in predicates. Handlers where the last step does not specify a step (C<foo/bar/*>) are triggered after other XPath handlers. Finally C<_all_> handlers are triggered last.

B<Important>: once a handler has been triggered if it returns 0 then no other handler is called, except a C<_all_> handler which will be called anyway.

If a handler returns a true value and other handlers apply, then the next applicable handler will be called. Repeat, rinse, lather..; The exception to that rule is when the C<L<do_not_chain_handlers>> option is set, in which case only the first handler will be called.

Note that it might be a good idea to explicitly return a short true value (like 1) from handlers: this ensures that other applicable handlers are called even if the last statement for the handler happens to evaluate to false. This might also speedup the code by avoiding the result of the last statement of the code to be copied and passed to the code managing handlers. It can really pay to have 1 instead of a long string returned.

When the closing tag for an element is parsed the corresponding handler is

called, with 2 arguments: the twig and the C<L<Element> >. The twig includes the document tree that has been built so far, the element is the complete sub-tree for the element. B<The fact that the handler is called only when the closing tag for the element is found means that handlers for inner elements are called before handlers for outer elements>.

C<\$_> is also set to the element, so it is easy to write inline handlers like

```
para => sub { $_->set_tag( 'p'); }
```

Text

is stored in elements whose tag name is #PCDATA (due to mixed content, text and sub-element in an element there is no way to store the text as just an attribute of the enclosing element, this is similar to the DOM model).

B<Warning>: if you have used purge or flush on the twig the element might not be complete, some of its children might have been entirely flushed or purged, and the start tag might even have been printed (by C<flush>) already, so changing its tag might not give the expected result.

=item twig_roots

This argument let's you build the tree only for those elements you are interested in.

```
Example: my $t= XML::Twig->new( twig_roots => { title => 1, subtitle => 1});
        $t->parsefile( file);
        my $t= XML::Twig->new( twig_roots => { 'section/title' => 1});
        $t->parsefile( file);
```

return a twig containing a document including only C<title> and C<subtitle> elements, as children of the root element.

You can use I<generic_attribute_condition>, I<attribute_condition>, I<full_path>, I<partial_path>, I<tag>, I<tag_regexp>, I<_default_> and I<_all_> to trigger the building of the twig. I<string_condition> and I<regexp_condition> cannot be used as the content of the element, and the string, have not yet been parsed when the condition is checked.

B<WARNING>: path are checked for the document. Even if the C<twig_roots> option is used they will be checked against the full document tree, not the virtual tree created by XML::Twig

B<WARNING>: twig_roots elements should NOT be nested, that would hopelessly confuse XML::Twig ;--(

Note: you can set handlers (twig_handlers) using twig_roots

```
Example: my $t= XML::Twig->new( twig_roots =>
    { title => sub { $_[1]->print;},
      subtitle => \&process_subtitle
    }
  );
$t->parsefile( file);
```

=item twig_print_outside_roots

To be used in

conjunction with the C<twig_roots> argument. When set to a true value this will print the document outside of the C<twig_roots> elements.

```
Example: my $t= XML::Twig->new( twig_roots => { title => \&number_title },
    twig_print_outside_roots => 1,
  );
$t->parsefile( file);
{ my $nb;
  sub number_title
  { my( $twig, $title);
    $nb++;
    $title->prefix( "$nb ");
    $title->print;
  }
}
```

This example prints the document outside of the title element, calls C<number_title> for each C<title> element, prints it, and then resumes printing the document. The twig is built only for the C<title> elements.

If the value is a reference to a file handle then the document outside the C<twig_roots> elements will be output to this file handle:

```
open( my $out, '>', 'out_file.xml') or die "cannot open out file.xml out_file:$!";
my $t= XML::Twig->new(
  twig_roots => { title => \&number_title },
    # default output to $out
    twig_print_outside_roots => $out,
  );

{ my $nb;
  sub number_title
```

```

    { my( $twig, $title);
      $nb++;
      $title->prefix( "$nb ");
      $title->print( $out);  # you have to print to \*OUT here
    }
  }
}

```

=item start_tag_handlers

A hash C<{ expression => \&handler}>. Sets element handlers that are called when the element is open (at the end of the XML::Parser C<Start> handler). The handlers are called with 2 params: the twig and the element. The element is empty at that point, its attributes are created though.

You can use I<generic_attribute_condition>, I<attribute_condition>, I<full_path>, I<partial_path>, I<tag>, I<tag_regexp>, I<_default_> and I<_all_> to trigger the handler.

I<string_condition> and I<regexp_condition> cannot be used as the content of the element, and the string, have not yet been parsed when the condition is checked.

The main uses for those handlers are to change the tag name (you might have to do it as soon as you find the open tag if you plan to C<flush> the twig at some point in the element, and to create temporary attributes that will be used when processing sub-element with C<twig_handlers>.

B<Note>: C<start_tag> handlers can be called outside of C<twig_roots> if this argument is used. Since the element object is not built, in this case handlers are called with the following arguments: C<\$t> (the twig), C<\$tag> (the tag of the element) and C<%att> (a hash of the attributes of the element).

If the C<twig_print_outside_roots> argument is also used, if the last handler called returns a C<true> value, then the start tag will be output as it appeared in the original document, if the handler returns a C<false> value then the start tag will B<not> be printed (so you can print a modified string

yourself for example).

Note that you can use the L<ignore> method in C<start_tag_handlers> (and only there).

=item end_tag_handlers

A hash C<{ expression => \&handler}>. Sets element handlers that are called when the element is closed (at the end of the XML::Parser C<End> handler). The handlers

are called with 2 params: the twig and the tag of the element.

I<twig_handlers> are called when an element is completely parsed, so why have this redundant option? There is only one use for C<end_tag_handlers>: when using the C<twig_roots> option, to trigger a handler for an element B<outside> the roots. It is for example very useful to number titles in a document using nested sections:

```
my @no= (0);
my $no;
my $t= XML::Twig->new(
    start_tag_handlers =>
        { section => sub { $no[$#no]++; $no= join ' ', @no; push @no, 0; } },
    twig_roots        =>
        { title  => sub { $_->prefix( $no); $_->print; } },
    end_tag_handlers  => { section
=> sub { pop @no; } },
    twig_print_outside_roots => 1
);
$t->parsefile( $file);
```

Using the C<end_tag_handlers> argument without C<twig_roots> will result in an error.

=item do_not_chain_handlers

If this option is set to a true value, then only one handler will be called for each element, even if several satisfy the condition

Note that the C<_all_> handler will still be called regardless

=item ignore_elts

This option lets you ignore elements when building the twig. This is useful in cases where you cannot use C<twig_roots> to ignore elements, for example if the element to ignore is a sibling of elements you are interested in.

Example:

```
my $twig= XML::Twig->new( ignore_elts => { elt => 'discard' });
$twig->parsefile( 'doc.xml');
```

This will build the complete twig for the document, except that all C<elt> elements (and their children) will be left out.

The keys in the hash are triggers, limited to the same subset as C<L<start_tag_handlers>>.

The values can be C<discard>, to discard the element, C<print>, to output the element as-is, C<string> to store the text of the ignored element(s), including markup, in a field of the twig: C<< \$t->{twig_buffered_string} >> or a reference to a scalar, in which case the text of the ignored element(s), including markup, will be stored in the scalar. Any other value will be treated as C<discard>.

=item char_handler

A reference to a subroutine that will be called every time C<PCDATA> is found.

The subroutine receives the string as argument, and returns the modified string:

```
# WE WANT ALL STRINGS IN UPPER CASE
sub my_char_handler
{ my( $text)= @_;
  $text= uc( $text);
  return $text;
}
```

=item elt_class

The name of a class used to store elements. this class should inherit from C<XML::Twig::Elt> (and by default it is C<XML::Twig::Elt>). This option is used to subclass the element class and extend it with new methods.

This option is needed because during the parsing of the XML, elements are created by C<XML::Twig>, without any control from the user code.

=item keep_atts_order

Setting this option to a true value causes the attribute hash to be tied to a C<Tie::IxHash> object.

This means that C<Tie::IxHash> needs to be installed for this option to be available. It also means that the hash keeps its order, so you will get the attributes in order. This allows outputting the attributes in the same order as they were in the original document.

=item keep_encoding

This is a (slightly?) evil option: if the XML document is not UTF-8 encoded and you want to keep it that way, then setting keep_encoding will use the C<Expat> original_string method for character, thus keeping the original encoding, as well as the original entities in the strings.

See the C<t/test6.t> test file to see what results you can expect from the

various encoding options.

B<WARNING>: if the original encoding is multi-byte then attribute parsing will be EXTREMELY unsafe under any Perl before 5.6, as it uses regular expressions which do not deal properly with multi-byte characters. You can specify an alternate function to parse the start tags with the C<parse_start_tag> option (see below)

B<WARNING>: this option is NOT used when parsing with XML::Parser non-blocking parser (C<parse_start>, C<parse_more>, C<parse_done> methods) which you probably should not use with XML::Twig anyway as they are totally untested!

=item output_encoding

This option generates an output_filter using C<Encode>, C<Text::Iconv> or C<Unicode::Map8> and C<Unicode::Strings>, and sets the encoding in the XML declaration. This is the easiest way to deal with encodings, if you need more sophisticated features, look at C<output_filter> below

=item output_filter

This option is used to convert the character encoding of the output document. It is passed either a string corresponding to a predefined filter or a subroutine reference. The filter will be called every time a document or

element is processed by the "print" functions (C<print>, C<sprint>, C<flush>).

Pre-defined filters:

=over 4

=item latin1

uses either C<Encode>, C<Text::Iconv> or C<Unicode::Map8> and C<Unicode::String> or a regexp (which works only with XML::Parser 2.27), in this order, to convert all characters to ISO-8859-15 (usually latin1 is synonym to ISO-8859-1, but in practice it seems that ISO-8859-15, which includes the euro sign, is more useful and probably what most people want).

=item html

does the same conversion as C<latin1>, plus encodes entities using C<HTML::Entities> (oddly enough you will need to have HTML::Entities installed for it to be available). This should only be used if the tags and attribute names themselves are in US-ASCII, or they will be converted and the output will not be valid XML any more

=item safe

converts the output to ASCII (US) only plus I<character entities> (C<&#nnn;>) this should be used only if the tags and attribute names themselves are in US-ASCII, or they will be converted and the output will not be valid XML any more

=item safe_hex

same as C<safe> except that the character entities are in hex (C<&#xnnn;>)

=item encode_convert (\$encoding)

Return a subref that can be used to convert utf8 strings to C<\$encoding>). Uses C<Encode>.

```
my $conv = XML::Twig::encode_convert( 'latin1');  
my $t = XML::Twig->new(output_filter => $conv);
```

=item iconv_convert (\$encoding)

this function is used to create a filter subroutine that will be used to convert the characters to the target encoding using C<Text::Iconv> (which needs to be installed, look at the documentation for the module and for the C<iconv> library to find out which encodings are available on your system, C<iconv -l> should give you a list of available encodings)

```
my $conv = XML::Twig::iconv_convert( 'latin1');  
my $t = XML::Twig->new(output_filter => $conv);
```

=item unicode_convert (\$encoding)

this function is used to create a filter subroutine that will be used to convert the characters to the target encoding using C<Unicode::Strings> and C<Unicode::Map8> (which need to be installed, look at the documentation for the modules to find out which encodings are available on your system)

```
my $conv = XML::Twig::unicode_convert( 'latin1');  
my $t = XML::Twig->new(output_filter => $conv);
```

=back

The C<text> and C<att> methods do not use the filter, so their result are always in unicode.

Those predeclared filters are based on subroutines that can be used by themselves (as C<XML::Twig::foo>).

=over 4

=item html_encode (\$string)

Use C<HTML::Entities> to encode a utf8 string

=item safe_encode (\$string)

Use either a regexp (perl < 5.8) or C<Encode> to encode non-ascii characters in the string in C<< &#<nnnn>; >> format

=item safe_encode_hex (\$string)

Use either a regexp (perl < 5.8) or C<Encode> to encode non-ascii characters in the string in C<< &#x<nnnn>; >> format

=item regexp2latin1 (\$string)

Use a regexp to encode a utf8 string into latin 1 (ISO-8859-1). Does not work with Perl 5.8.0!

=back

=item output_text_filter

same as output_filter, except it doesn't apply to the brackets and quotes around attribute values. This is useful for all filters that could change the tagging, basically anything that does not just change the encoding of the output. C<html>, C<safe> and C<safe_hex> are better used with this option.

=item input_filter

This option is similar to C<output_filter> except the filter is applied to the characters before they are stored in the twig, at parsing time.

=item remove_cdata

Setting this option to a true value will force the twig to output CDATA sections as regular (escaped) PCDATA

=item parse_start_tag

If you use the C<keep_encoding> option then this option can be used to replace the default parsing function. You should provide a coderef (a reference to a

subroutine) as the argument, this subroutine takes the original tag (given by XML::Parser::Expat C<original_string()> method) and returns a tag and the attributes in a hash (or in a list attribute_name/attribute value).

=item no_xxe

prevents external entities to be parsed.

This is a security feature, in case the input XML cannot be trusted. With this option set to a true value defining external entities in the document will cause the parse to fail.

This prevents an entity like C<< <!ENTITY xxe PUBLIC "bar" "/etc/passwd"> >> to make the password file available in the document.

=item expand_external_ents

When this option is used external entities (that are defined) are expanded when the document is output using "print" functions such as C<L<print> >, C<L<sprint> >, C<L<flush> > and C<L<xml_string> >.

Note that in the twig the entity will be stored as an element with a tag 'C<#ENT>', the entity will not be expanded there, so you might want to process the entities before outputting it.

If an external entity is not available, then the parse will fail.

A special case is when the value of this option is -1. In that case a missing entity will not cause the parser to die, but its C<name>, C<sysid> and C<pubid> will be stored in the twig as C<< \$twig->{twig_missing_system_entities} >> (a reference to an array of hashes { name => <name>, sysid => <sysid>, pubid => <pubid> }). Yes, this is a bit of a hack, but it's useful in some cases.

=item load_DTD

If this argument is set to a true value, C<parse> or C<parsefile> on the twig will load the DTD information. This information can then be accessed through the twig, in a C<DTD_handler> for example. This will load even an external DTD.

Default and fixed values for attributes will also be filled, based on the DTD.

Note that to do this the module will generate a temporary file in the current directory. If this is a problem let me know and I will add an option to specify an alternate directory.

See L<DTD Handling> for more information

=item DTD_base <path_to_DTD_directory>

If the DTD is in a different directory, looks for it there, useful to make up somewhat for the lack of catalog support in C<expat>. You still need a SYSTEM declaration

=item DTD_handler

Set a handler that will be called once the doctype (and the DTD) have been loaded, with 2 arguments, the twig and the DTD.

=item no_prolog

Does not output a prolog (XML declaration and DTD)

=item id

This optional argument gives the name of an attribute that can be used as an ID in the document. Elements whose ID is known can be accessed through the elt_id method. id defaults to 'id'.

See C<L<BUGS>>

=item discard_spaces

If this optional argument is set to a true value then spaces are discarded when they look non-significant: strings containing only spaces and at least one line feed are discarded. This argument is set to true by default.

The exact algorithm to drop spaces is: strings including only spaces (perl \s) and at least one \n right before an open or close tag are dropped.

=item discard_all_spaces

If this argument is set to a true value, spaces are discarded more aggressively than with C<discard_spaces>: strings not including a \n are also dropped. This option is appropriate for data-oriented XML.

=item keep_spaces

If this optional argument is set to a true value then all spaces in the document are kept, and stored as C<PCDATA>.

B<Warning>: adding this option can result in changes in the twig generated:

space that was previously discarded might end up in a new text element. see the difference by calling the following code with 0 and 1 as arguments:

```
perl -MXML::Twig -e'print XML::Twig->new( keep_spaces => shift)->parse( "<d> \n<e/></d>" )->_dump'
```

C<keep_spaces> and C<discard_spaces> cannot be both set.

=item discard_spaces_in

This argument sets C<keep_spaces> to true but will cause the twig builder to discard spaces in the elements listed.

The syntax for using this argument is:

```
XML::Twig->new( discard_spaces_in => [ 'elt1', 'elt2'] );
```

=item keep_spaces_in

This argument sets C<discard_spaces> to true but will cause the twig builder to keep spaces in the elements listed.

The syntax for using this argument is:

```
XML::Twig->new( keep_spaces_in => [ 'elt1', 'elt2'] );
```

B<Warning>: adding this option can result in changes in the twig generated: space that was previously discarded might end up in a new text element.

=item pretty_print

Set the pretty print method, amongst 'C<none>' (default), 'C<nsgmls>', 'C<nice>', 'C<indented>', 'C<indented_c>', 'C<indented_a>', 'C<indented_close_tag>', 'C<cvs>', 'C<wrapped>', 'C<record>' and 'C<record_c>'

pretty_print formats:

=over 4

=item none

The document is output as one ling string, with no line breaks except those found within text elements

=item nsgmls

Line breaks are inserted in safe places: that is within tags, between a tag

and an attribute, between attributes and before the > at the end of a tag.

This is quite ugly but better than C<none>, and it is very safe, the document will still be valid (conforming to its DTD).

This is
how the SGML parser C<sgmls> splits documents, hence the name.

=item nice

This option inserts line breaks before any tag that does not contain text (so element with textual content are not broken as the \n is the significant).

B<WARNING>: this option leaves the document well-formed but might make it invalid (not conformant to its DTD). If you have elements declared as

```
<!ELEMENT foo (#PCDATA|bar)>
```

then a C<foo> element including a C<bar> one will be printed as

```
<foo>
<bar>bar is just pcddata</bar>
</foo>
```

This is invalid, as the parser will take the line break after the C<foo> tag as a sign that the element contains PCDATA, it will then die when it finds the C<bar> tag. This may or may not be important for you, but be aware of it!

=item indented

Same as C<nice> (and with the same warning) but indents elements according to their level

=item indented_c

Same as C<indented> but a little more compact: the closing tags are on the same line as the preceding text

=item indented_close_tag

Same
as C<indented> except that the closing tag is also indented, to line up with the tags within the element

=item indented_a

This formats XML files in a line-oriented version control friendly way.
The format is described in L<<http://tinyurl.com/2kwscq>> (that's an Oracle

document with an insanely long URL).

Note that to be totally conformant to the "spec", the order of attributes should not be changed, so if they are not already in alphabetical order you will need to use the C<L<keep_atts_order>> option.

=item cvs

Same as C<L<indented_a>>.

=item wrapped

Same as C<indented_c> but lines are wrapped using L<Text::Wrap::wrap>. The default length for lines is the default for C<\$Text::Wrap::columns>, and can be changed by changing that variable.

=item record

This is a record-oriented pretty print, that display data in records, one field per line (which looks a LOT like C<indented>)

=item record_c

Stands for record compact, one record per line

=back

=item empty_tags

Set

the empty tag display style ('C<normal>', 'C<html>' or 'C<expand>').

C<normal> outputs an empty tag 'C<< <tag/> >>', C<html> adds a space 'C<< <tag /> >>' for elements that can be empty in XHTML and C<expand> outputs 'C<< <tag></tag> >>'

=item quote

Set the quote character for attributes ('C<single>' or 'C<double>').

=item escape_gt

By default XML::Twig does not escape the character > in its output, as it is not mandated by the XML spec. With this option on, > will be replaced by C<>>

=item comments

Set the way comments are processed: 'C<drop>' (default), 'C<keep>' or 'C<process>'

Comments processing options:

=over 4

=item drop

drops the comments, they are not read, nor printed to the output

=item keep

comments are loaded and will appear on the output, they are not accessible within the twig and will not interfere with processing though

B<Note>: comments in the middle of a text element such as

```
<p>text <!-- comment --> more text --></p>
```

are kept at

their original position in the text. Using "print" methods like C<print> or C<sprint> will return the comments in the text. Using C<text> or C<field> on the other hand will not.

Any use of C<set_pCDATA> on the C<#PCDATA> element (directly or through other methods like C<set_content>) will delete the comment(s).

=item process

comments are loaded in the twig and will be treated as regular elements (their C<tag> is C<#COMMENT>) this can interfere with processing if you expect C<< \$elt->first_child >> to be an element but find a comment there. Validation will not protect you from this as comments can happen anywhere. You can use C<< \$elt->first_child('tag') >> (which is a good habit anyway) to get where you want.

Consider using C<process> if you are outputting SAX events from XML::Twig.

=back

=item pi

Set the way processing instructions are processed: 'C<drop>', 'C<keep>' (default) or 'C<process>'

Note that you can also set PI handlers in the C<twig_handlers> option:

'?'

=> \&handler

'?target' => \&handler 2

The handlers will be called with 2 parameters, the twig and the PI element if C<pi> is set to C<process>, and with 3, the twig, the target and the data if C<pi> is set to C<keep>. Of course they will not be called if C<pi> is set to C<drop>.

If C<pi> is set to C<keep> the handler should return a string that will be used as-is as the PI text (it should look like "C< <?target data?> >" or "" if you want to remove the PI),

Only one handler will be called, C<?target> or C<?> if no specific handler for that target is available.

=item map_xmlns

This option is passed a hashref that maps uri's to prefixes. The prefixes in the document will be replaced by the ones in the map. The mapped prefixes can (actually have to) be used to trigger handlers, navigate or query the document.

Here is an example:

```
my $t= XML::Twig->new( map_xmlns => { 'http://www.w3.org/2000/svg' => "svg" },
    twig_handlers =>

    { 'svg:circle' => sub { $_->set_att( r => 20) } },
    pretty_print => 'indented',
)
->parse( '<doc xmlns:gr="http://www.w3.org/2000/svg">
    <gr:circle cx="10" cy="90" r="10"/>
</doc>'
)
->print;
```

This will output:

```
<doc xmlns:svg="http://www.w3.org/2000/svg">
  <svg:circle cx="10" cy="90" r="20"/>
</doc>
```

=item keep_original_prefix

When used with C<L<map_xmlns>> this option will make C<XML::Twig> use the original namespace prefixes when outputting a document. The mapped prefix will still be used for triggering handlers and in navigation and query methods.

```

my $t= XML::Twig->new( map_xmlns => {'http://www.w3.org/2000/svg' => "svg"},
    twig_handlers =>
        { 'svg:circle' => sub { $_->set_att( r => 20) } },
    keep_original_prefix => 1,

    pretty_print => 'indented',
)
->parse( '<doc xmlns:gr="http://www.w3.org/2000/svg">
    <gr:circle cx="10" cy="90" r="10"/>
</doc>'
)
->print;

```

This will output:

```

<doc xmlns:gr="http://www.w3.org/2000/svg">
  <gr:circle cx="10" cy="90" r="20"/>
</doc>

```

`=item original_uri ($prefix)`

called within a handler, this will return the uri bound to the namespace prefix in the original document.

`=item index ($arrayref or $hashref)`

This option creates lists of specific elements during the parsing of the XML.

It takes a reference to either a list of triggering expressions or to a hash name => expression, and for each one generates the list of elements that match the expression. The list can be accessed through the `C<L<index>>` method.

example:

```

# using an array ref
my $t= XML::Twig->new( index => [ 'div', 'table' ])

->parsefile( "foo.xml");
my $divs= $t->index( 'div');
my $first_div= $divs->[0];
my $last_table= $t->index( table => -1);

# using a hashref to name the indexes
my $t= XML::Twig->new( index => { email => 'a[@href=~/^ \s*mailto:/]' })
->parsefile( "foo.xml");
my $last_emails= $t->index( email => -1);

```

Note that the index is not maintained after the parsing. If elements are

deleted, renamed or otherwise hurt during processing, the index is NOT updated.
(changing the id element OTOH will update the index)

=item att_accessors <list of attribute names>

creates methods that give direct access to attribute:

```
my $t= XML::Twig->new( att_accessors => [ 'href', 'src']  
    ->parsefile( $file);  
my $first_href= $t->first_elt( 'img')->src; # same as ->att( 'src')  
$t->first_elt( 'img')->src( 'new_logo.png') # changes the attribute value
```

=item elt_accessors

creates methods that give direct access to the first child element (in scalar context)

or

the list of elements (in list context):

the list of accessors to create can be given 1 2 different ways: in an array,
or in a hash alias => expression

```
my $t= XML::Twig->new( elt_accessors => [ 'head'])  
    ->parsefile( $file);  
my $title_text= $t->root->head->field( 'title');  
# same as $title_text= $t->root->first_child( 'head')->field( 'title');
```

```
my $t= XML::Twig->new( elt_accessors => { warnings => 'p[@class="warning"]', d2 => 'div[2]', } )  
    ->parsefile( $file);  
my $body= $t->first_elt( 'body');  
my @warnings= $body->>warnings; # same as $body->children( 'p[@class="warning"]');  
my $s2= $body->d2; # same as $body->first_child( 'div[2]')
```

=item field_accessors

creates methods that give direct access to the first child element text:

```
my $t= XML::Twig->new( field_accessors => [ 'h1'])  
    ->parsefile( $file);  
my $div_title_text= $t->first_elt( 'div')->title;  
# same as $title_text= $t->first_elt( 'div')->field(  
'title');
```

=item use_tidy

set this option to use HTML::Tidy instead of HTML::TreeBuilder to convert
HTML to XML. HTML, especially real (real "crap") HTML found in the wild,
so depending on the data, one module or the other does a better job at
the conversion. Also, HTML::Tidy can be a bit difficult to install, so
XML::Twig offers both option. TIMTOWTDI

=item output_html_doctype

when using `HTML::TreeBuilder` to convert HTML, this option causes the DOCTYPE declaration to be output, which may be important for some legacy browsers.

Without that option the DOCTYPE definition is NOT output. Also if the definition is completely wrong (ie not easily parsable), it is not output either.

=back

B<Note>: I _HATE_ the Java-like name of arguments used by most XML modules.

So in pure TIMTOWTDI fashion all arguments can be written either as

`C<UglyJavaLikeName>` or as `C<readable_perl_name>`: `C<twig_print_outside_roots>` or `C<TwigPrintOutsideRoots>` (or even `C<twigPrintOutsideRoots> {shudder}`).

`XML::Twig`

normalizes them before processing them.

=item parse (\$source)

The `C<$source>` parameter should either be a string containing the whole XML document, or it should be an open `C<IO::Handle>` (aka a filehandle).

A die call is thrown if a parse error occurs. Otherwise it will return the twig built by the parse. Use `C<safe_parse>` if you want the parsing to return even when an error occurs.

If this method is called as a class method

(`C<< XML::Twig->parse( $some_xml_or_html) >>`) then an `XML::Twig` object is created, using the parameters except the last one (eg

`C<< XML::Twig->parse( pretty_print => 'indented', $some_xml_or_html) >>`) and `C<L<xparse>>` is called on it.

Note that when parsing a filehandle, the handle should NOT be open with an encoding (ie open with `C<open( my $in, '<', $filename)>`). The file will be parsed by `C<expat>`, so specifying the encoding actually causes problems for the parser (as in: it can crash it, see

<https://rt.cpan.org/Ticket/Display.html?id=78877>). For parsing a file it

is actually recommended to use `C<parsefile>` on the file name, instead of `<parse>` on the open file.

=item parsestring

This is just an alias for `C<parse>` for backwards compatibility.

=item parsefile (FILE [, OPT => OPT_VALUE [...]])

Open `C<FILE>` for reading, then call `C<parse>` with the open handle. The file

is closed no matter how C<parse> returns.

A C<die> call is thrown if a parse error occurs. Otherwise it will return the twig built by the parse. Use C<safe_parsefile> if you want the parsing to return even when an error occurs.

```
=item parsefile_inplace ( $file, $optional_extension)
```

Parse and update a file "in place". It does this by creating a temp file, selecting it as the default for print() statements (and methods), then parsing the input file. If the parsing is successful, then the temp file is moved to replace the input file.

If an extension is given then the original file is backed-up (the rules for the extension are the same as the rule for the -i option in perl).

```
=item parsefile_html_inplace ( $file, $optional_extension)
```

Same as parsefile_inplace, except that it parses HTML instead of XML

```
=item parseurl ($url $optional_user_agent)
```

Gets the data from C<\$url> and parse it. The data is piped to the parser in chunks the size of the XML::Parser::Expat buffer, so memory consumption and hopefully speed are optimal.

For most (read "small") XML it is probably as efficient (and easier to debug) to just C<get> the XML file and then parse it as a string.

```
use XML::Twig;
use LWP::Simple;
my $twig= XML::Twig->new();
$twig->parse( LWP::Simple::get( $URL ));
```

or

```
use XML::Twig;
my $twig= XML::Twig->nparsed( $URL);
```

If the C<\$optional_user_agent> argument is used then it is used, otherwise a new one is created.

```
=item safe_parse ( SOURCE [, OPT => OPT_VALUE [...]])
```

This method is similar to C<parse> except that it wraps the parsing in an C<eval> block. It returns the twig on success and 0 on failure (the twig object

also contains

the parsed twig). C<\$@> contains the error message on failure.

Note that the parsing still stops as soon as an error is detected, there is no way to keep going after an error.

=item safe_parsefile (FILE [, OPT => OPT_VALUE [...]])

This method is similar to C<parsefile> except that it wraps the parsing in an C<eval> block. It returns the twig on success and 0 on failure (the twig object also contains the parsed twig) . C<\$@> contains the error message on failure

Note that the parsing still stops as soon as an error is detected, there is no way to keep going after an error.

=item safe_parseurl (\$url \$optional_user_agent)

Same as C<parseurl> except that it wraps the parsing in an C<eval> block. It returns the twig on success and 0 on failure (the twig object also contains the parsed twig) . C<\$@> contains the error message on failure

=item parse_html (\$string_or_fh)

parse an HTML string or file handle (by converting it to XML using HTML::TreeBuilder, which needs to be available).

This

works nicely, but some information gets lost in the process:
newlines are removed, and (at least on the version I use), comments
get an extra CDATA section inside (<!-- foo --> becomes
<!-- <![CDATA[foo]]> -->

=item parsefile_html (\$file)

parse an HTML file (by converting it to XML using HTML::TreeBuilder, which needs to be available, or HTML::Tidy if the C<use_tidy> option was used).
The file is loaded completely in memory and converted to XML before being parsed.

this method is to be used with caution though, as it doesn't know about the file encoding, it is usually better to use C<L<parse_html>>, which gives you a chance to open the file with the proper encoding layer.

=item parseurl_html (\$url \$optional_user_agent)

parse an URL as html the same way C<L<parse_html>> does

=item safe_parseurl_html (\$url \$optional_user_agent)

Same as C<L<parseurl_html>>> except that it wraps the parsing in an C<eval> block. It returns the twig on success and 0 on failure (the twig object also contains the parsed twig) . C<\$@> contains the error message on failure

=item safe_parsefile_html (\$file \$optional_user_agent)

Same as C<L<parsefile_html>>> except that it wraps the parsing in an C<eval> block. It returns the twig on success and 0 on failure (the twig object also contains the parsed twig) . C<\$@> contains the error message on failure

=item safe_parse_html (\$string_or_fh)

Same as C<L<parse_html>> except that it wraps the parsing in an C<eval> block. It returns the twig on success and 0 on failure (the twig object also contains the parsed twig) . C<\$@> contains the error message on failure

=item xparse (\$thing_to_parse)

parse the C<\$thing_to_parse>, whether it is a filehandle, a string, an HTML file, an HTML URL, an URL or a file.

Note that this is mostly a convenience method for one-off scripts. For example files that end in '.htm' or '.html' are parsed first as XML, and if this fails as HTML. This is certainly not the most efficient way to do this in general.

=item nparse (\$optional_twig_options, \$thing_to_parse)

create a twig with the C<\$optional_options>, and parse the C<\$thing_to_parse>, whether it is a filehandle, a string, an HTML file, an HTML URL, an URL or a file.

Examples:

```
XML::Twig->nparsed( "file.xml");
XML::Twig->nparsed( error_context => 1, "file://file.xml");
```

=item nparsed_pp (\$optional_twig_options, \$thing_to_parse)

same as C<L<nparsed>> but also sets the C<pretty_print> option to C<indented>.

=item nparsed_e (\$optional_twig_options, \$thing_to_parse)

same as C<L<nparsed>> but also sets the C<error_context> option to 1.

=item nparsed_ppe (\$optional_twig_options, \$thing_to_parse)

same as `C<L<nparse>>` but also sets the `C<pretty_print>` option to `C<indented>` and the `C<error_context>` option to 1.

=item parser

This method returns the `C<expat>` object (actually the `XML::Parser::Expat` object) used during parsing. It is useful for example to call `XML::Parser::Expat` methods on it. To get the line of a tag for example use `C<< $t->parser->current_line >>`.

=item setTwigHandlers (\$handlers)

Set the `twig_handlers`. `C<$handlers>` is a reference to a hash similar to the one in the `C<twig_handlers>` option of `new`. All previous handlers are unset. The method returns the reference to the previous handlers.

=item setTwigHandler (\$exp \$handler)

Set a single `twig_handler` for elements matching `C<$exp>`. `C<$handler>` is a reference to a subroutine. If the handler was previously set then the reference to the previous handler is returned.

=item setStartTagHandlers (\$handlers)

Set the `start_tag` handlers. `C<$handlers>` is a reference to a hash similar to the one in the `C<start_tag_handlers>` option of `new`. All previous handlers are unset. The method returns the reference to the previous handlers.

=item setStartTagHandler (\$exp \$handler)

Set a single `start_tag` handlers for elements matching `C<$exp>`. `C<$handler>` is a reference to a subroutine. If the handler was previously set then the reference to the previous handler is returned.

=item setEndTagHandlers (\$handlers)

Set the `end_tag` handlers. `C<$handlers>` is a reference to a hash similar to the one in the `C<end_tag_handlers>` option of `new`. All previous handlers are unset. The method returns the reference to the previous handlers.

=item setEndTagHandler (\$exp \$handler)

Set a single `end_tag` handlers for elements matching `C<$exp>`. `C<$handler>` is a reference to a subroutine. If the handler was previously set then the reference to the previous handler is returned.

=item setTwigRoots (\$handlers)

Same as using the C<L<twig_roots>> option when creating the twig

=item setCharHandler (\$exp \$handler)

Set a C<char_handler>

=item setIgnoreEltsHandler (\$exp)

Set a C<ignore_elt> handler (elements that match C<\$exp> will be ignored)

=item setIgnoreEltsHandlers (\$exp)

Set all C<ignore_elt> handlers (previous handlers are replaced)

=item dtd

Return the dtd (an L<XML::Twig::DTD> object) of a twig

=item xmldecl

Return the XML declaration
for the document, or a default one if it doesn't
have one

=item doctype

Return the doctype for the document

=item doctype_name

returns the doctype of the document from the doctype declaration

=item system_id

returns the system value of the DTD of the document from the doctype declaration

=item public_id

returns the public doctype of the document from the doctype declaration

=item internal_subset

returns the internal subset of the DTD

=item dtd_text

Return the DTD text

=item dtd_print

Print the DTD

=item model (\$tag)

Return the model (in the DTD) for the element C<\$tag>

=item root

Return the root element of a twig

=item set_root (\$elt)

Set the root of a twig

=item first_elt (\$optional_condition)

Return the first element matching C<\$optional_condition> of a twig, if no condition is given then the root is returned

=item last_elt (\$optional_condition)

Return the last element matching C<\$optional_condition> of a twig, if no condition is given then the last element of the twig is returned

=item elt_id (\$id)

Return the element whose C<id> attribute is \$id

=item getEltById

Same as C<L<elt_id>>

=item index (\$index_name, \$optional_index)

If the C<\$optional_index> argument is present, return the corresponding element in the index (created using the C<index> option for C<XML::Twig->new>)

If the argument is not present, return an arrayref to the index

=item normalize

merge together all consecutive pcdta elements in the document (if for example you have turned some elements into pcdta using C<L<erase>>, this will give you a "clean" document in which there all text elements are as long as possible).

=item encoding

This method returns the encoding of the XML document, as defined by the C<encoding> attribute in the XML declaration (ie it is C<undef> if the attribute is not defined)

=item set_encoding

This method sets the value of the C<encoding> attribute in the XML declaration. Note that if the document did not have a declaration it is generated (with an XML version of 1.0)

=item xml_version

This method returns the XML version, as defined by the C<version> attribute in the XML declaration (ie it is C<undef> if the attribute is not defined)

=item set_xml_version

This method sets the value of the C<version> attribute in the XML declaration. If the declaration did not exist it is created.

=item standalone

This method returns the value of the C<standalone> declaration for the document

=item set_standalone

This method sets the value of the C<standalone> attribute in the XML declaration. Note that if the document did not have a declaration it is generated (with an XML version of 1.0)

=item set_output_encoding

Set the C<encoding> "attribute" in the XML declaration

=item set_doctype (\$name, \$system, \$public, \$internal)

Set the doctype of the element. If an argument is C<undef> (or not present) then its former value is retained, if a false (" or 0) value is passed then the former value is deleted;

=item
entity_list

Return the entity list of a twig

=item entity_names

Return the list of all defined entities

=item entity (\$entity_name)

Return the entity

=item notation_list

Return the notation list of a twig

=item notation_names

Return the list of all defined notations

=item notation (\$notation_name)

Return the notation

=item change_gi (\$old_gi, \$new_gi)

Performs a (very fast) global change. All elements C<\$old_gi> are now C<\$new_gi>. This is a bit dangerous though and should be avoided if < possible, as the new tag might be ignored in subsequent processing.

See C<L<BUGS> >

=item flush (\$optional_filehandle, %options)

Flushes a twig up to (and including) the current element, then deletes all unnecessary elements from the tree that's kept in memory. C<flush> keeps track of which elements need to be open/closed, so if you flush from handlers you don't have to worry about anything. Just keep flushing the twig every time you're done with a sub-tree and it will come out well-formed. After the whole parsing don't forget to C<flush> one more time to print the end of the document. The doctype and entity declarations are also printed.

flush take an optional filehandle as an argument.

If you use C<flush> at any point during parsing, the document will be flushed one last time at the end of the parsing, to the proper filehandle.

options: use the C<update_DTD> option if you have updated the (internal) DTD and/or the entity list and you want the updated DTD to be output

The C<pretty_print> option sets the pretty printing of the document.

```
Example: $t->flush( Update_DTD => 1);
         $t->flush( $filehandle, pretty_print => 'indented');
         $t->flush( \*FILE);
```

=item flush_up_to (\$elt, \$optional_filehandle, %options)

Flushes up to the C<\$elt> element. This allows you to keep part of the tree in memory when you C<flush>.

options: see flush.

=item purge

Does the same as a C<flush> except it does not print the twig. It just deletes all elements that have been completely parsed so far.

=item purge_up_to (\$elt)

Purges up to the C<\$elt> element. This allows you to keep part of the tree in memory when you C<purge>.

=item print (\$optional_filehandle, %options)

Prints the whole document associated with the twig. To be used only AFTER the parse.

options: see C<flush>.

=item print_to_file (\$filename, %options)

Prints the whole document associated with the twig to file C<\$filename>. To be used only AFTER the parse.

options: see C<flush>.

=item safe_print_to_file (\$filename, %options)

Prints the whole document associated with the twig to file C<\$filename>. This variant, which probably only works on *nix prints to a temp file, then move the temp file to overwrite the original file.

This is a bit safer when 2 processes an potentially write the same file: only the last one will succeed, but the file won't be corrupted. I often

use this for cron jobs, so testing the code doesn't interfere with the cron job running at the same time.

options: see C<flush>.

=item sprint

Return the text of the whole document associated with the twig. To be used only AFTER the parse.

options: see C<flush>.

=item trim

Trim the document: gets rid of initial and trailing spaces, and replaces multiple spaces by a single one.

=item toSAX1 (\$handler)

Send SAX events for the twig to the SAX1 handler C<\$handler>

=item toSAX2 (\$handler)

Send SAX events for the twig to the SAX2 handler C<\$handler>

=item flush_toSAX1 (\$handler)

Same as flush, except that SAX events are sent to the SAX1 handler C<\$handler> instead of the twig being printed

=item flush_toSAX2 (\$handler)

Same as flush, except that SAX events are sent to the SAX2 handler C<\$handler> instead of the twig being printed

=item ignore

This method should be called during parsing, usually in C<start_tag_handlers>. It causes the element to be skipped during the parsing: the twig is not built for this element, it will not be accessible during parsing or after it. The element will not take up any memory and parsing will be faster.

Note that this method can also be called on an element. If the element is a parent of the current element then this element will be ignored (the twig will not be built any more for it and what has already been built will be deleted).

=item set_pretty_print (\$style)

Set the pretty print method, amongst 'C<none>' (default), 'C<nsgmls>', 'C<nice>', 'C<indented>', 'C<indented_c>', 'C<wrapped>', 'C<record>' and 'C<record_c>'

B<WARNING:> the pretty print style is a B<GLOBAL> variable, so once set it's applied to B<ALL> C<print>'s (and C<sprint>'s). Same goes if you use XML::Twig with C<mod_perl> . This should not be a problem as the XML that's generated is valid anyway, and XML processors (as well as HTML processors, including browsers) should not care. Let me know if this is a big problem, but at the moment the performance/cleanliness trade-off clearly favors the global approach.

=item
set_empty_tag_style (\$style)

Set the empty tag display style ('C<normal>', 'C<html>' or 'C<expand>'). As with C<L<set_pretty_print>> this sets a global flag.

C<normal> outputs an empty tag 'C<< <tag/> >>', C<html> adds a space 'C<< <tag /> >>' for elements that can be empty in XHTML and C<expand> outputs 'C<< <tag></tag> >>'

=item set_remove_cdata (\$flag)

set (or unset) the flag that forces the twig to output CDATA sections as regular (escaped) PCDATA

=item print_prolog (\$optional_filehandle, %options)

Prints the prolog (XML declaration + DTD + entity declarations) of a document.

options: see C<L<flush>>.

=item prolog (\$optional_filehandle, %options)

Return the prolog (XML declaration + DTD + entity declarations) of a document.

options: see C<L<flush>>.

=item finish

Call Expat C<finish> method.

Unsets all handlers (including internal ones that set context), but expat continues parsing to the end of the document or until it finds an error.

It should finish

up a lot faster than with the handlers set.

=item finish_print

Stops twig processing, flush the twig and proceed to finish printing the document as fast as possible. Use this method when modifying a document and the modification is done.

=item finish_now

Stops twig processing, does not finish parsing the document (which could actually be not well-formed after the point where C<finish_now> is called). Execution resumes after the C<Lparse>> or C<L<parsefile>> call. The content of the twig is what has been parsed so far (all open elements at the time C<finish_now> is called are considered closed).

=item set_expand_external_entities

Same as using the C<L<expand_external_ents>> option when creating the twig

=item set_input_filter

Same as using the C<L<input_filter>> option when creating the twig

=item set_keep_atts_order

Same as using the C<L<keep_atts_order>> option when creating the twig

=item set_keep_encoding

Same as using the C<L<keep_encoding>> option when creating the twig

=item escape_gt

usually XML::Twig does not escape > in its output. Using this option makes it replace > by >

=item do_not_escape_gt

reverts XML::Twig behavior to its default of not escaping > in its output.

=item set_output_filter

Same as using the C<L<output_filter>> option when creating the twig

=item set_output_text_filter

Same as using the C<L<output_text_filter>> option when creating the twig

=item add_stylesheet (\$type, @options)

Adds an external stylesheet to an XML document.

Supported types and options:

=over 4

=item xsl

option: the url of the stylesheet

Example:

```
$t->add_stylesheet( xsl => "xsl_style.xml");
```

will generate the following PI at the beginning of the document:

```
<?xml-stylesheet type="text/xml" href="xsl_style.xml"?>
```

=item css

option: the url of the stylesheet

=item active_twig

a class method that returns the last processed twig, so you don't necessarily need the object to call methods on it.

=back

=item Methods inherited from XML::Parser::Expat

A

twig inherits all the relevant methods from XML::Parser::Expat. These methods can only be used during the parsing phase (they will generate a fatal error otherwise).

Inherited methods are:

=over 4

=item depth

Returns the size of the context list.

=item in_element

Returns true if NAME is equal to the name of the innermost currently opened element. If namespace processing is being used and you want to check against a name that may be in a namespace, then use the generate_ns_name method to create the NAME argument.

=item within_element

Returns the number of times the given name appears in the context list. If namespace processing is being used and you want to check against a name that may be in a namespace, then use the generate_ns_name method to create the NAME argument.

=item context

Returns a list of element names that represent open elements, with the last one being the innermost. Inside start and end tag handlers, this will be the tag of the parent element.

=item current_line

Returns the line number of the current position of the parse.

=item current_column

Returns the column number of the current position of the parse.

=item current_byte

Returns the current position of the parse.

=item position_in_context

Returns a string that shows the current parse position. LINES should be an integer ≥ 0 that represents the number of lines on either side of the current parse line to place into the returned string.

=item base ([NEWBASE])

Returns the current value of the base for resolving relative URIs. If NEWBASE is supplied, changes the base to that value.

=item current_element

Returns the name of the innermost currently opened element. Inside

start or end handlers, returns the parent of the element associated with those tags.

=item element_index

Returns an integer that is the depth-first visit order of the current element. This will be zero outside of the root element. For example, this will return 1 when called from the start handler for the root element start tag.

=item recognized_string

Returns the string from the document that was recognized in order to call the current handler. For instance, when called from a start handler, it will give us the start-tag string. The string is encoded in UTF-8. This method doesn't return a meaningful string inside declaration handlers.

=item original_string

Returns the verbatim string from the document that was recognized in order to call the current handler. The string is in the original document encoding. This method doesn't return a meaningful string inside declaration handlers.

=item xpcroak

Concatenate onto the given message the current line number within the XML document plus the message implied by ErrorContext. Then croak with the formed message.

=item xpcarp

Concatenate onto the given message the current line number within the XML document plus the message implied by ErrorContext. Then carp with the formed message.

=item xml_escape(TEXT [, CHAR [,
CHAR ...]])

Returns TEXT with markup characters turned into character entities. Any additional characters provided as arguments are also turned into character references where found in TEXT.

(this method is broken on some versions of expat/XML::Parser)

=back

=item path (\$optional_tag)

Return the element context in a form similar to XPath's short form: 'C</root/tag1/../tag>'

=item get_xpath (\$optional_array_ref, \$xpath, \$optional_offset)

Performs a C<get_xpath> on the document root (see <Elt|"Elt">)

If the C<\$optional_array_ref> argument is used the array must contain elements. The C<\$xpath> expression is applied to each element in turn and the result is union of all results. This way a first query can be refined in further steps.

=item find_nodes (\$optional_array_ref, \$xpath, \$optional_offset)

same as C<get_xpath>

=item findnodes (\$optional_array_ref, \$xpath, \$optional_offset)

same as C<get_xpath> (similar to the XML::LibXML method)

=item findvalue (\$optional_array_ref,
\$xpath, \$optional_offset)

Return the C<join> of all texts of the results of applying C<L<get_xpath>> to the node (similar to the XML::LibXML method)

=item findvalues (\$optional_array_ref, \$xpath, \$optional_offset)

Return an array of all texts of the results of applying C<L<get_xpath>> to the node

=item subs_text (\$regexp, \$replace)

subs_text does text substitution on the whole document, similar to perl's C<s///> operator.

=item dispose

Useful only if you don't have C<Scalar::Util> or C<WeakRef> installed.

Reclaims properly the memory used by an XML::Twig object. As the object has circular references it never goes out of scope, so if you want to parse lots of XML documents then the memory leak becomes a problem. Use C<< \$twig->dispose >> to clear this problem.

=item att_accessors (list_of_attribute_names)

A convenience method that creates l-valued accessors for attributes.

So C<< \$twig->create_accessors('foo') >> will create a C<foo> method that can be called on elements:

```
$self->foo;      # equivalent to $self->att( 'foo');  
$self->foo( 'bar'); # equivalent to $self->set_att( foo => 'bar');
```

The methods are l-valued only under those perl's that support this feature (5.6 and above)

=item create_accessors (list_of_attribute_names)

Same as att_accessors

=item elt_accessors (list_of_attribute_names)

A convenience method that creates accessors for elements.

So C<< \$twig->create_accessors('foo') >> will create a C<foo> method that can be called on elements:

```
$self->foo;      # equivalent to $self->first_child( 'foo');
```

=item field_accessors (list_of_attribute_names)

A convenience method that creates accessors for element values (C<field>).

So C<< \$twig->create_accessors('foo') >> will create a C<foo> method that can be called on elements:

```
$self->foo;      # equivalent to $self->field( 'foo');
```

=item set_do_not_escape_amp_in_atts

An evil method, that I only document because Test::Pod::Coverage complains otherwise, but really, you don't want to know about it.

=back

=head2 XML::Twig::Elt

=over 4

=item new (\$optional_tag, \$optional_atts, @optional_content)

The C<tag> is optional (but then you can't have a content), the C<\$optional_atts> argument is a reference to a hash of attributes, the content can be just a string or a list of strings and element. A content of 'C<#EMPTY>' creates an empty element;

```
Examples: my $elt= XML::Twig::Elt->new();
          my $elt= XML::Twig::Elt->new( para => { align => 'center' });
          my $elt= XML::Twig::Elt->new( para => { align => 'center' }, 'foo');
          my $elt= XML::Twig::Elt->new( br  => '#EMPTY');
          my $elt= XML::Twig::Elt->new( 'para');
          my $elt= XML::Twig::Elt->new( para => 'this is a para');
          my $elt= XML::Twig::Elt->new( para => $elt3, 'another para');
```

The strings are not parsed, the element is not attached to any twig.

B<WARNING>: if you rely on ID's then you will have to set the id yourself. At this

point the element does not belong to a twig yet, so the ID attribute is not known so it won't be stored in the ID list.

Note that C<#COMMENT>, C<#PCDATA> or C<#CDATA> are valid tag names, that will create text elements.

To create an element C<foo> containing a CDATA section:

```
my $foo= XML::Twig::Elt->new( '#CDATA' => "content of the CDATA section")
->wrap_in( 'foo');
```

An attribute of '#CDATA', will create the content of the element as CDATA:

```
my $elt= XML::Twig::Elt->new( 'p' => { '#CDATA' => 1}, 'foo < bar');
```

creates an element

```
<p><![CDATA[foo < bar]]></>
```

```
=item parse      ($string, %args)
```

Creates an element from an XML string. The string is actually parsed as a new twig, then the root of that twig is returned.

The arguments in C<%args> are passed to the twig.

As always if the parse fails the parser will die, so use an eval if you want to trap syntax errors.

As obviously the element does not exist beforehand this method has to be called on the class:

```
my $elt= parse XML::Twig::Elt( "<a> string to parse, with <sub/>  
    <elements>, actually tons of </elements>  
    h</a>");
```

```
=item set_inner_xml ($string)
```

Sets the content of the element to be the tree created from the string

```
=item set_inner_html ($string)
```

Sets the content of the element, after parsing the string with an HTML parser (HTML::Parser)

```
=item set_outer_xml ($string)
```

Replaces the element with the tree created from the string

```
=item print      ($optional_filehandle, $optional_pretty_print_style)
```

Prints an entire element, including the tags, optionally to a C<\$optional_filehandle>, optionally with a C<\$pretty_print_style>.

The print outputs XML data so base entities are escaped.

```
=item print_to_file ($filename, %options)
```

Prints the element to file C<\$filename>.

options: see C<flush>.

```
=item sprint      ($elt, $optional_no_enclosing_tag)
```

Return the xml string for an entire element, including the tags.

If the optional second argument is true then only the string inside the element is returned (the start and end tag for \$elt are not).

The text is XML-escaped: base entities (& and < in text, & < and " in attribute values) are turned into entities.

```
=item gi
```

Return the gi of the element (the gi is the C<generic identifier> the tag name in SGML parlance).

C<tag> and C<name> are synonyms of C<gi>.

```
=item tag
```

Same as C<L<gi>>

=item name

Same as C<L<tag>>

=item set_gi (\$tag)

Set the gi (tag) of an element

=item set_tag (\$tag)

Set the tag (=C<L<tag>>) of an element

=item set_name (\$name)

Set the name (=C<L<tag>>) of an element

=item root

Return the root of the twig in which the element is contained.

=item twig

Return the twig containing the element.

=item parent (\$optional_condition)

Return the parent of the element, or the first ancestor matching the C<\$optional_condition>

=item first_child (\$optional_condition)

Return
the first child of the element, or the first child matching the C<\$optional_condition>

=item has_child (\$optional_condition)

Return the first child of the element, or the first child matching the C<\$optional_condition> (same as L<first_child>)

=item has_children (\$optional_condition)

Return the first child of the element, or the first child matching the C<\$optional_condition> (same as L<first_child>)

=item first_child_text (\$optional_condition)

Return the text of the first child of the element, or the first child matching the C<\$optional_condition>

If there is no first_child then returns ". This avoids getting the child, checking for its existence then getting the text for trivial cases.

Similar methods are available for the other navigation methods:

=over 4

=item last_child_text

=item prev_sibling_text

=item next_sibling_text

=item prev_elt_text

=item next_elt_text

=item child_text

=item parent_text

=back

All this methods also exist in
"trimmed" variant:

=over 4

=item first_child_trimmed_text

=item last_child_trimmed_text

=item prev_sibling_trimmed_text

=item next_sibling_trimmed_text

=item prev_elt_trimmed_text

=item next_elt_trimmed_text

=item child_trimmed_text

=item parent_trimmed_text

=back

=item field (\$condition)

Same method as C<first_child_text> with a different name

=item fields (\$condition_list)

Return the list of field (text of first child matching the conditions),
missing fields are returned as the empty string.

Same method as C<first_child_text> with a different name

=item trimmed_field (\$optional_condition)

Same method as C<first_child_trimmed_text> with a different name

=item set_field (\$condition, \$optional_atts, @list_of_elt_and_strings)

Set the content of the first child of the element that matches
C<\$condition>, the rest of the arguments is the same as for C<L<set_content>>

If no child matches C<\$condition> _and_ if C<\$condition> is a valid
XML element

name, then a new element by that name is created and
inserted as the last child.

=item first_child_matches (\$optional_condition)

Return the element if the first child of the element (if it exists) passes
the C<\$optional_condition> C<undef> otherwise

if(\$elt->first_child_matches('title')) ...

is equivalent to

if(\$elt->first_child && \$elt->first_child->passes('title'))

C<first_child_is> is an other name for this method

Similar methods are available for the other navigation methods:

=over 4

=item last_child_matches

=item prev_sibling_matches

=item next_sibling_matches

=item prev_elt_matches

=item next_elt_matches

=item child_matches

=item parent_matches

=back

=item is_first_child (\$optional_condition)

returns true (the element) if the element is the first child of its parent
(optionally that satisfies the C<\$optional_condition>)

=item is_last_child (\$optional_condition)

returns true (the element) if the element is the last child of its parent
(optionally
that satisfies the C<\$optional_condition>)

=item prev_sibling (\$optional_condition)

Return the previous sibling of the element, or the previous sibling matching
C<\$optional_condition>

=item next_sibling (\$optional_condition)

Return the next sibling of the element, or the first one matching
C<\$optional_condition>.

=item next_elt (\$optional_elt, \$optional_condition)

Return the next elt (optionally matching C<\$optional_condition>) of the element. This
is defined as the next element which opens after the current element opens.
Which usually means the first child of the element.
Counter-intuitive as it might look this allows you to loop through the
whole document by starting from the root.

The C<\$optional_elt> is the root of a subtree. When the C<next_elt> is out of the
subtree then the method returns undef. You can then walk a sub-tree with:

```
my $elt= $subtree_root;
while( $elt= $elt->next_elt( $subtree_root))
{ # insert processing code here
}
```

=item prev_elt
(\$optional_condition)

Return the previous elt (optionally matching C<\$optional_condition>) of the element. This is the first element which opens before the current one.

It is usually either the last descendant of the previous sibling or simply the parent

=item next_n_elt (\$offset, \$optional_condition)

Return the C<\$offset>-th element that matches the C<\$optional_condition>

=item following_elt

Return the following element (as per the XPath following axis)

=item preceding_elt

Return the preceding element (as per the XPath preceding axis)

=item following_elts

Return the list of following elements (as per the XPath following axis)

=item preceding_elts

Return the list of preceding elements (as per the XPath preceding axis)

=item children (\$optional_condition)

Return the list of children (optionally which matches C<\$optional_condition>) of the element. The list is in document order.

=item children_count (\$optional_condition)

Return the number of children of the element
(optionally which matches
C<\$optional_condition>)

=item children_text (\$optional_condition)

In array context, returns an array containing the text of children of the element (optionally which matches C<\$optional_condition>)

In scalar context, returns the concatenation of the text of children of the element

=item children_trimmed_text (\$optional_condition)

In array context, returns an array containing the trimmed text of children of the element (optionally which matches C<\$Optional_condition>)

In scalar context, returns the concatenation of the trimmed text of children of the element

=item children_copy (\$Optional_condition)

Return a list of elements that are copies of the children of the element, optionally which matches C<\$Optional_condition>

=item descendants (\$Optional_condition)

Return the list of all descendants (optionally which matches C<\$Optional_condition>) of the element. This is the equivalent of the C<getElementsByTagName> of the DOM (by the way, if you are really a DOM addit, you can use C<getElementsByTagName> instead)

=item getElementsByTagName (\$Optional_condition)

Same as C<L<descendants>>

=item find_by_tag_name (\$Optional_condition)

Same as C<L<descendants>>

=item descendants_or_self (\$Optional_condition)

Same as C<L<descendants>> except that the element itself is included in the list if it matches the C<\$Optional_condition>

=item first_descendant (\$Optional_condition)

Return the first descendant of the element that matches the condition

=item last_descendant (\$Optional_condition)

Return the last descendant of the element that matches the condition

=item ancestors (\$Optional_condition)

Return the list of ancestors (optionally matching C<\$Optional_condition>) of the element. The list is ordered from the innermost ancestor to the outermost one

NOTE: the element itself is not part of the list, in order to include it

you will have to use `ancestors_or_self`

`=item ancestors_or_self ($optional_condition)`

Return

the list of ancestors (optionally matching `C<$optional_condition>`) of the element, including the element (if it matches the condition).

The list is ordered from the innermost ancestor to the outermost one

`=item passes ($condition)`

Return the element if it passes the `C<$condition>`

`=item att ($att)`

Return the value of attribute `C<$att>` or `C<undef>`

`=item latt ($att)`

Return the value of attribute `C<$att>` or `C<undef>`

this method is an lvalue, so you can do `C<< $elt->latt( 'foo')= 'bar' >>` or `C<< $elt->latt( 'foo')++; >>`

`=item set_att ($att, $att_value)`

Set the attribute of the element to the given value

You can actually set several attributes this way:

```
$elt->set_att( att1 => "val1", att2 => "val2");
```

`=item del_att ($att)`

Delete the attribute for the element

You can actually delete several attributes at once:

```
$elt->del_att( 'att1', 'att2', 'att3');
```

`=item att_exists ($att)`

Returns true if the attribute `C<$att>` exists for the element,

false

otherwise

`=item cut`

Cut the element from the tree. The element still exists, it can be copied

or pasted somewhere else, it is just not attached to the tree anymore.

Note that the "old" links to the parent, previous and next siblings can still be accessed using the former_* methods

=item former_next_sibling

Returns the former next sibling of a cut node (or undef if the node has not been cut)

This makes it easier to write loops where you cut elements:

```
my $child= $parent->first_child( 'achild');
while( $child->att( 'cut'))
{ $child->cut; $child= $child->former_next_sibling; }
```

=item former_prev_sibling

Returns the former previous sibling of a cut node (or undef if the node has not been cut)

=item former_parent

Returns the former parent of a cut node (or undef if the node has not been cut)

=item cut_children (\$optional_condition)

Cut all the children of the element (or all of those which satisfy the C<\$optional_condition>).

Return the list of children

=item cut_descendants (\$optional_condition)

Cut all the descendants of the element (or all of those which satisfy the C<\$optional_condition>).

Return the list of descendants

=item copy (\$elt)

Return a copy of the element. The copy is a "deep" copy: all sub-elements of the element are duplicated.

=item paste (\$optional_position, \$ref)

Paste a (previously C<cut> or newly generated) element. Die if the element already belongs to a tree.

Note that the calling element is pasted:

```
$child->paste( first_child => $existing_parent);  
$new_sibling->paste( after => $this_sibling_is_already_in_the_tree);
```

or

```
my $new_elt= XML::Twig::Elt->new( tag => $content);  
$new_elt->paste( $position => $existing_elt);
```

Example:

```
my $t= XML::Twig->new->parse( 'doc.xml')  
my $toc= $t->root->new( 'toc');  
$toc->paste( $t->root); # $toc is pasted as first child of the root  
foreach my $title ($t->findnodes( '/doc/section/title'))  
{ my $title_toc= $title->copy;  
  # paste  
  $title_toc as the last child of toc  
  $title_toc->paste( last_child => $toc)  
}
```

Position options:

=over 4

=item first_child (default)

The element is pasted as the first child of C<\$ref>

=item last_child

The element is pasted as the last child of C<\$ref>

=item before

The element is pasted before C<\$ref>, as its previous sibling.

=item after

The element is pasted after C<\$ref>, as its next sibling.

=item within

In this case an extra argument, C<\$offset>, should be supplied. The element will be pasted in the reference element (or in its first text child) at the given offset. To achieve this the reference element will be split at the offset.

=back

Note that you can call directly the underlying method:

=over 4

=item paste_before

=item paste_after

=item paste_first_child

=item paste_last_child

=item paste_within

=back

=item move (\$optional_position, \$ref)

Move an element in the tree.

This is just a C<cut> then a C<paste>. The syntax is the same as C<paste>.

=item

replace (\$ref)

Replaces an element in the tree. Sometimes it is just not possible to C<cut> an element then C<paste> another in its place, so C<replace> comes in handy. The calling element replaces C<\$ref>.

=item replace_with (@elts)

Replaces the calling element with one or more elements

=item delete

Cut the element and frees the memory.

=item prefix (\$text, \$optional_option)

Add a prefix to an element. If the element is a C<PCDATA> element the text is added to the pcddata, if the elements first child is a C<PCDATA> then the text is added to it's pcddata, otherwise a new C<PCDATA> element is created and pasted as the first child of the element.

If the option is C<asis> then the prefix is added asis: it is created in a separate C<PCDATA> element with an C<asis> property. You can then write:

```
$elt1->prefix( '<b>', 'asis');
```

to create a C<< >> in the output of C<print>.

```
=item suffix ($text, $optional_option)
```

Add a suffix to an element. If the element is a C<PCDATA> element the text is added to the pcdData, if the element's last child is a C<PCDATA> then the text is added to its pcdData, otherwise a new PCDATA element is created and pasted as the last child of the element.

If the option is C<asis> then the suffix is added as is: it is created in a separate C<PCDATA> element with an C<asis> property. You can then write:

```
$elt2->suffix( '</b>', 'asis');
```

```
=item trim
```

Trim the element in-place: spaces at the beginning and at the end of the element are discarded and multiple spaces within the element (or its descendants) are replaced by a single space.

Note that in some cases you can still end up with multiple spaces, if they are split between several elements:

```
<doc> text <b> hah! </b> yep</doc>
```

gets trimmed to

```
<doc>text <b> hah! </b> yep</doc>
```

This is somewhere in between a bug and a feature.

```
=item normalize
```

merge together all consecutive pcdData elements in the element (if for example you have turned some elements into pcdData using C<L<erase>>, this will give you a "clean" element in which there all text fragments are as long as possible).

```
=item simplify (%options)
```

Return a data structure suspiciously similar to XML::Simple's. Options are identical to XMLin options, see XML::Simple doc for more details (or use DATA::dumper or YAML to dump the data structure)

B<Note>: there is no magic here, if you write
C<< \$twig->parsefile(\$file)->simplify(); >> then it will load the entire document in memory. I am afraid you will have to put some work into it to get just the bits you want and discard the rest. Look at the synopsis or the XML::Twig 101 section at the top of the docs for more information.

=over 4

=item content_key

=item forcearray

=item keyattr

=item noattr

=item normalize_space

aka normalise_space

=item variables (%var_hash)

%var_hash is a hash { name => value }

This option allows variables in the XML to be expanded when the file is read. (there is no facility for putting the variable names back if you regenerate XML using XMLout).

A 'variable' is any text of the form \${name} (or \$name) which occurs in an attribute value or in the text content of an element. If 'name' matches a key in the supplied hashref, \${name} will be replaced with the corresponding value from the hashref. If no matching key is found, the variable will not be replaced.

=item var_att (\$attribute_name)

This option gives the name of an attribute that will be used to create variables in the XML:

```
<dirs>
  <dir name="prefix">/usr/local</dir>
  <dir name="exec_prefix">$prefix/bin</dir>
</dirs>
```

use C<< var => 'name' >> to get \$prefix replaced by /usr/local in the generated data structure

By default variables are captured by the following regexp: /\$(\w+)/

=item var_regexp (regexp)

This option changes the regexp used to capture variables. The variable name should be in \$1

=item group_tags { grouping tag => grouped tag, grouping tag 2 => grouped tag 2...}

Option used

to simplify the structure: elements listed will not be used.

Their children will be, they will be considered children of the element parent.

If the element is:

```
<config host="laptop.xmltwig.org">
  <server>localhost</server>
  <dirs>
    <dir name="base">/home/mrodrigu/standards</dir>
    <dir name="tools">$base/tools</dir>
  </dirs>
  <templates>
    <template name="std_def">std_def.templ</template>
    <template name="dummy">dummy</template>
  </templates>
</config>
```

Then calling simplify with C<< group_tags => { dirs => 'dir',
templates => 'template'} >>
makes the data structure be exactly as if the start and end tags for C<dirs> and
C<templates> were not there.

A YAML dump of the structure

```
base: '/home/mrodrigu/standards'
host: laptop.xmltwig.org
server: localhost
template:
  - std_def.templ
  - dummy.templ
tools: '$base/tools'
```

=back

=item split_at (\$offset)

Split a text (C<PCDATA> or C<CDATA>) element in 2 at C<\$offset>, the original element

now holds the first part of the string and a new element holds the right part. The new element is returned

If the element is not a text element then the first text child of the element is split

=item split (\$optional_regexp, \$tag1, \$atts1, \$tag2, \$atts2...)

Split the text descendants of an element in place, the text is split using the C<\$regexp>, if the regexp includes () then the matched separators will be wrapped in elements. C<\$1> is wrapped in \$tag1, with attributes C<\$atts1> if C<\$atts1> is given (as a hashref), C<\$2> is wrapped in \$tag2...

if \$elt is C<< <p>tati tata tutu tati titi tata tati tata</p> >>

\$elt->split(qr/(ta)ti/, 'foo', {type => 'toto'})

will change \$elt to

```
<p><foo type="toto">ta</foo> tata <b>tutu <foo type="toto">ta</foo>
titi</b> tata <foo type="toto">ta</foo> tata</p>
```

The regexp can be passed either as a string or as C<qr//> (perl 5.005 and later), it defaults to \s+ just as the C<split> built-in (but this would be quite a useless behaviour without the C<\$optional_tag> parameter)

C<\$optional_tag> defaults to PCDATA or CDATA, depending on the initial element type

The list of descendants is returned (including un-touched original elements and newly created ones)

=item mark (\$regexp, \$optional_tag, \$optional_attribute_ref)

This method behaves exactly as L<split>, except only the newly created elements are returned

=item wrap_children (\$regexp_string, \$tag, \$optional_attribute_hashref)

Wrap the children of the element that match the regexp in an element C<\$tag>. If \$optional_attribute_hashref is passed then the new element will have these attributes.

The \$regexp_string includes tags, within pointy brackets, as in C<< <title><para>+ >> and the usual Perl modifiers (+*?...).

Tags can be further qualified with attributes:

C<< <para type="warning" classif="cosmic_secret">+ >>. The values

for attributes should be xml-escaped: C<< <candy type="M&Ms">* >>

(C<E<lt>>, C<&> B<C<E<gt>>>

and C<"> should be escaped).

Note that elements might get extra C<id> attributes in the process. See L<add_id>.

Use L<strip_att> to remove unwanted id's.

Here is an example:

If the element C<\$elt> has the following content:

```
<elt>
  <p>para 1</p>
  <l_l1_1>list 1 item 1 para 1</l_l1_1>
  <l_l1>list 1 item 1 para 2</l_l1>
  <l_l1_n>list 1 item 2 para 1 (only para)</l_l1_n>
  <l_l1_n>list 1 item 3 para 1</l_l1_n>
  <l_l1>list 1 item 3 para 2</l_l1>
  <l_l1>list 1 item 3 para 3</l_l1>
  <l_l1_1>list 2 item 1 para 1</l_l1_1>
  <l_l1>list 2 item 1 para 2</l_l1>
  <l_l1_n>list 2 item 2 para 1 (only para)</l_l1_n>
  <l_l1_n>list 2 item 3 para 1</l_l1_n>
  <l_l1>list 2 item 3 para 2</l_l1>
  <l_l1>list 2 item 3 para 3</l_l1>
</elt>
```

Then the code

```
$elt->wrap_children( q{<l_l1_1><l_l1>*} , li => { type => "ul1" } );
$elt->wrap_children( q{<l_l1_n><l_l1>*} , li => { type => "ul" } );

$elt->wrap_children( q{<li type="ul1"><li type="ul">+}, "ul");
$elt->strip_att( 'id' );
$elt->strip_att( 'type' );
$elt->print;
```

will output:

```
<elt>
  <p>para 1</p>
  <ul>
    <li>
      <l_l1_1>list 1 item 1 para 1</l_l1_1>
      <l_l1>list 1 item 1 para 2</l_l1>
    </li>
    <li>
      <l_l1_n>list 1 item 2 para 1 (only para)</l_l1_n>
```

```

</li>
<li>
  <l_l1_n>list 1 item 3 para 1</l_l1_n>
  <l_l1>list 1 item 3 para 2</l_l1>
  <l_l1>list 1 item 3 para 3</l_l1>
</li>
</ul>
<ul>
  <li>
    <l_l1_1>list 2 item 1 para 1</l_l1_1>
    <l_l1>list 2 item 1 para 2</l_l1>
  </li>
  <li>
    <l_l1_n>list 2 item 2 para 1 (only para)</l_l1_n>
  </li>
  <li>
    <l_l1_n>list 2 item 3 para 1</l_l1_n>
    <l_l1>list 2 item 3 para 2</l_l1>
    <l_l1>list 2 item 3 para 3</l_l1>
  </li>
</ul>
</elt>

```

```
=item subs_text ($regexp, $replace)
```

subs_text does text substitution, similar to perl's C< s///> operator.

C<\$regexp> must
be a perl regexp, created with the C<qr> operator.

C<\$replace> can include C<\$1, \$2>... from the C<\$regexp>. It can also be
used to create element and entities, by using
C<< <(tag => { att => val }, text) >> (similar syntax as C<L<new>>)> and
C<< &ent(name) >>.

Here is a rather complex example:

```

$elt->subs_text( qr{(?<!do not )link to (http://([^\s,]*)}},
  'see &lt;( a =>{ href => $1 }, $2)'
);

```

This will replace text like I<link to http://www.xmltwig.org> by
I<< see www.xmltwig.org >>, but not
I<do not link to...>

Generating entities (here replacing spaces with):

```
$elt->subs_text( qr{ }, '&ent( "&nbsp;");');
```

or, using a variable:

```
my $ent="&nbsp;";  
$elt->subs_text( qr{ }, "&ent( '$ent' )");
```

Note that the substitution is always global, as in using the C<g> modifier in a perl substitution, and that it is performed on all text descendants of the element.

B<Bug>: in the C<\$regexp>, you can only use C<1>, C<2>... if the replacement expression does not include elements or attributes. eg

```
$t->subs_text( qr/((t[aiou])2)/, '$2');          # ok, replaces toto, tata, titi, tutu by to, ta, ti, tu  
$t->subs_text( qr/((t[aiou])2)/, '&elt(p => $1)' ); # NOK, does not find toto...
```

```
=item add_id ($optional_coderef)
```

Add an id to the element.

The id is an attribute, C<id> by default, see the C<id> option for XML::Twig C<new> to change it. Use an id starting with C<#> to get an id that's not output by L<print>, L<flush> or L<sprint>, yet that allows you to use the L<elt_id> method to get the element easily.

If the element already has an id, no new id is generated.

By default the method create an id of the form C<< twig_id_<nnnn> >>, where C<< <nnnn> >> is a number, incremented each time the method is called successfully.

```
=item set_id_seed ($prefix)
```

by default the id generated by C<L<add_id>> is C<< twig_id_<nnnn> >>, C<set_id_seed> changes the prefix to C<\$prefix> and resets the number to 1

```
=item strip_att ($att)
```

Remove the attribute C<\$att> from all descendants of the element (including the element)

Return the element

```
=item change_att_name ($old_name, $new_name)
```


Change the name of the attribute from C<\$old_name> to C<\$new_name>. If there is no attribute C<\$old_name> nothing happens.

=item lc_attnames

Lower cases the name all the attributes of the element.

=item sort_children_on_value(%options)

Sort the children of the element in place according to their text.
All children are sorted.

Return the element, with its children sorted.

C<%options> are

type : numeric | alpha (default: alpha)
order : normal | reverse (default: normal)

Return the element, with its children sorted

=item sort_children_on_att (\$att, %options)

Sort the children of the element in place according to attribute C<\$att>.
C<%options> are the same as for C<sort_children_on_value>

Return the element.

=item sort_children_on_field (\$tag, %options)

Sort the children
of the element in place, according to the field C<\$tag> (the
text of the first child of the child with this tag). C<%options> are the same
as for C<sort_children_on_value>.

Return the element, with its children sorted

=item sort_children(\$get_key, %options)

Sort the children of the element in place. The C<\$get_key> argument is
a reference to a function that returns the sort key when passed an element.

For example:

```
$elt->sort_children( sub { $_[0]->att( "nb") + $_[0]->text },
                    type => 'numeric', order => 'reverse'
                    );
```

```
=item field_to_att ($cond, $att)
```

Turn the text of the first sub-element matched by C<\$cond> into the value of attribute C<\$att> of the element. If C<\$att> is omitted then C<\$cond> is used as the name of the attribute, which makes sense only if C<\$cond> is a valid element (and attribute) name.

The sub-element is then cut.

```
=item att_to_field ($att, $tag)
```

Take the value of attribute C<\$att> and create a sub-element C<\$tag> as first child of the element. If C<\$tag> is omitted then C<\$att> is used as the name of the sub-element.

```
=item get_xpath ($xpath, $optional_offset)
```

Return a list of elements satisfying the C<\$xpath>. C<\$xpath> is an XPATH-like expression.

A subset of the XPATH abbreviated syntax is covered:

```
tag
tag[1] (or any other positive number)
tag[last()]
tag[@att] (the attribute exists for the element)
tag[@att="val"]
tag[@att=~ /regexp/]
tag[att1="val1" and att2="val2"]
tag[att1="val1" or att2="val2"]
tag[string()="toto"] (returns tag elements which text (as per the text method)
                    is toto)
tag[string()=~ /regexp/] (returns tag elements which text (as per the text
                        method) matches regexp)
expressions can start with / (search starts at the document root)
expressions can start with . (search starts at the current element)
// can be used to get all descendants instead of just direct children
* matches
any tag
```

So the following examples from the

F<XPath recommendationL<[<http://www.w3.org/TR/xpath.html#path-abbrev>>](http://www.w3.org/TR/xpath.html#path-abbrev) work:

para selects the para element children of the context node
 * selects all element children of the context node
 para[1] selects the first para child of the context node
 para[last()] selects the last para child of the context node
 */para selects all para grandchildren of the context node
 /doc/chapter[5]/section[2] selects the second section of the fifth chapter
 of the doc
 chapter//para selects the para element descendants of the chapter element
 children of the context node
 //para selects all the para descendants of the document root and thus selects
 all para elements in the same document as the context node
 //olist/item selects all the item elements in the same document as the
 context node that have an olist parent
 ../para selects the para element descendants of the context node
 .. selects the parent of the context node

para[@type="warning"] selects all para children of the context node that have
 a type attribute with value warning
 employee[@secretary and @assistant] selects all the employee children of the
 context node that have both a secretary attribute and an assistant
 attribute

The elements will be returned in the document order.

If C<\$Optional_offset> is used then only one element will be returned, the one with the appropriate offset in the list, starting at 0

Quoting and interpolating variables can be a pain when the Perl syntax and the XPATH syntax collide, so use alternate quoting mechanisms like q or qq (I like q{ } and qq{ } myself).

Here are some more examples to get you started:

```

my $p1= "p1";
my $p2= "p2";
my @res= $t->get_xpath( qq{p[string( "$p1") or string( "$p2")]});

my $a= "a1";
my @res= $t->get_xpath( qq{//*[att="$a"]});

my $val= "a1";
my $exp= qq{ //p[ \@att='$val']}; # you need to use \@ or you will get a warning
my @res= $t->get_xpath(
$exp);
  
```

Note that the only supported regexps delimiters are / and that you must

backslash all / in regexps AND in regular strings.

XML::Twig does not provide natively full XPATH support, but you can use C<L<XML::Twig::XPath>> to get C<findnodes> to use C<XML::XPath> as the XPath engine, with full coverage of the spec.

C<L<XML::Twig::XPath>> to get C<findnodes> to use C<XML::XPath> as the XPath engine, with full coverage of the spec.

=item find_nodes

same as C<get_xpath>

=item findnodes

same as C<get_xpath>

=item text @optional_options

Return a string consisting of all the C<PCDATA> and C<CDATA> in an element, without any tags. The text is not XML-escaped: base entities such as C<&> and C<< >> are not escaped.

The 'C<no_recurse>' option will only return the text of the element, not of any included sub-elements (same as C<L<text_only>>).

=item text_only

Same as C<L<text>> except that the text returned doesn't include the text of sub-elements.

=item trimmed_text

Same

as C<text> except that the text is trimmed: leading and trailing spaces are discarded, consecutive spaces are collapsed

=item set_text (\$string)

Set the text for the element: if the element is a C<PCDATA>, just set its text, otherwise cut all the children of the element and create a single C<PCDATA> child for it, which holds the text.

=item merge (\$elt2)

Move the content of C<\$elt2> within the element

=item insert (\$tag1, [\$optional_atts1], \$tag2, [\$optional_atts2],...)

For each tag in the list inserts an element C<\$tag> as the only child of the element. The element gets the optional attributes inC<< \$optional_atts<n>. >>
All children of the element are set as children of the new element.
The upper level element is returned.

```
$p->insert( table => { border=> 1 }, 'tr', 'td')
```

put C<\$p> in a table with a visible border, a single C<tr> and a single C<td>
and return the C<table> element:

```
<p><table border="1"><tr><td>original content of p</td></tr></table></p>
```

=item
wrap_in (@tag)

Wrap elements in C<@tag> as the successive ancestors of the element, returns the new element.

C<< \$elt->wrap_in('td', 'tr', 'table') >> wraps the element as a single cell in a table for example.

Optionally each tag can be followed by a hashref of attributes, that will be set on the wrapping element:

```
$elt->wrap_in( p => { class => "advisory" }, div => { class => "intro", id => "div_intro" });
```

=item insert_new_elt (\$opt_position, \$tag, \$opt_atts_hashref, @opt_content)

Combines a C<L<new> > and a C<L<paste> >: creates a new element using C<\$tag>, C<\$opt_atts_hashref >and C<@opt_content> which are arguments similar to those for C<new>, then paste it, using C<\$opt_position> or C<'first_child'>, relative to C<\$elt>.

Return the newly created element

=item erase

Erase the element: the element is deleted and all of its children are pasted in its place.

=item set_content (\$optional_atts, @list_of_elt_and_strings)
(\$optional_atts,
'#EMPTY')

Set the content for the element, from a list of strings and elements. Cuts all the element children, then pastes the list elements as the children. This method will create a C<PCDATA> element

for any strings in the list.

The C<\$optional_atts> argument is the ref of a hash of attributes. If this argument is used then the previous attributes are deleted, otherwise they are left untouched.

B<WARNING>: if you rely on ID's then you will have to set the id yourself. At this point the element does not belong to a twig yet, so the ID attribute is not known so it won't be stored in the ID list.

A content of 'C<#EMPTY>' creates an empty element;

=item namespace (\$optional_prefix)

Return the URI of the namespace that C<\$optional_prefix> or the element name belongs to. If the name doesn't belong to any namespace, C<undef> is returned.

=item local_name

Return the local name (without the prefix) for the element

=item ns_prefix

Return the namespace prefix for the element

=item
current_ns_prefixes

Return a list of namespace prefixes valid for the element. The order of the prefixes in the list has no meaning. If the default namespace is currently bound, " appears in the list.

=item inherit_att (\$att, @optional_tag_list)

Return the value of an attribute inherited from parent tags. The value returned is found by looking for the attribute in the element then in turn in each of its ancestors. If the C<@optional_tag_list> is supplied only those ancestors whose tag is in the list will be checked.

=item all_children_are (\$optional_condition)

return 1 if all children of the element pass the C<\$optional_condition>,
0 otherwise

=item level (\$optional_condition)

Return the depth of the element in the twig (root is 0).

If C<\$optional_condition> is given then only ancestors that match the condition are counted.

B<WARNING>: in a tree created using the C<twig_roots> option this will not return the level in the document tree, level 0 will be the document root, level 1 will be the C<twig_roots> elements. During the parsing (in a C<twig_handler>) you can use the C<depth> method on the twig object to get the real parsing depth.

=item in (\$potential_parent)

Return true if the element is in the potential_parent (C<\$potential_parent> is an element)

=item in_context (\$cond, \$optional_level)

Return true if the element is included in an element which passes C<\$cond> optionally within C<\$optional_level> levels. The returned value is the including element.

=item pcddata

Return the text of a C<PCDATA> element or C<undef> if the element is not C<PCDATA>.

=item pcddata_xml_string

Return the text of a C<PCDATA> element or undef if the element is not C<PCDATA>. The text is "XML-escaped" ('&' and '<' are replaced by '&' and '<')

=item set_pcddata (\$text)

Set the text of a C<PCDATA> element. This method does not check that the element is indeed a C<PCDATA> so usually you should use C<L<set_text>> instead.

=item
append_pcddata (\$text)

Add the text at the end of a C<PCDATA> element.

=item is_cdata

Return 1 if the element is a C<CDATA> element, returns 0 otherwise.

=item is_text

Return 1 if the element is a C<CDATA> or C<PCDATA> element, returns 0 otherwise.

=item cdata

Return the text of a C<CDATA> element or C<undef> if the element is not C<CDATA>.

=item cdata_string

Return the XML string of a C<CDATA> element, including the opening and closing markers.

=item set_cdata (\$text)

Set the text of a C<CDATA> element.

=item append_cdata (\$text)

Add the text at the end of a C<CDATA> element.

=item remove_cdata

Turns all C<CDATA> sections in the element into regular C<PCDATA> elements. This is useful when converting XML to HTML, as browsers do not support CDATA sections.

=item extra_data

Return the extra_data (comments and PI's) attached to an element

=item set_extra_data (\$extra_data)

Set the extra_data (comments and PI's) attached to an element

=item append_extra_data
(\$extra_data)

Append extra_data to the existing extra_data before the element (if no previous extra_data exists then it is created)

=item set_asis

Set a property of the element that causes it to be output without being XML escaped by the print functions: if it contains C<< a < b >> it will be output as such and not as C<< a < b >>. This can be useful to create text elements that will be output as markup. Note that all C<PCDATA> descendants of the element are also marked as having the property (they are the ones that are actually impacted by the change).

If the element is a C<CDATA> element it will also be output asis, without the C<CDATA> markers. The same goes for any C<CDATA> descendant of the element

=item set_not_asis

Unsets the C<asis> property for the element and its text descendants.

=item is_asis

Return the C<asis> property status of the element (1 or C<undef>)

=item closed

Return true if the element has been closed. Might be useful if you are somewhere in the tree, during the parse, and have no idea whether a parent element is completely loaded or not.

=item get_type

Return the type of the element: 'C<#ELT>' for "real" elements, or 'C<#PCDATA>', 'C<#CDATA>', 'C<#COMMENT>', 'C<#ENT>', 'C<#PI>'

=item is_elt

Return the tag if the element is a "real" element, or 0 if it is C<PCDATA>, C<CDATA>...

=item contains_only_text

Return 1 if the element does not contain any other "real" element

=item contains_only (\$exp)

Return the list of children if all children of the element match the expression C<\$exp>

```
if( $para->contains_only( 'tt') ) { ... }
```

=item contains_a_single (\$exp)

If the element contains a single child that matches the expression C<\$exp> returns that element. Otherwise returns 0.

=item is_field

same as C<contains_only_text>

=item is_pcddata

Return 1 if the element is a C<PCDATA> element, returns 0 otherwise.

=item is_ent

Return 1 if the element is an entity (an unexpanded entity) element,
return
0 otherwise.

=item is_empty

Return 1 if the element is empty, 0 otherwise

=item set_empty

Flags the element as empty. No further check is made, so if the element
is actually not empty the output will be messed. The only effect of this
method is that the output will be C<< <tag att="value"/> >>.

=item set_not_empty

Flags the element as not empty. if it is actually empty then the element will
be output as C<< <tag att="value"></tag> >>

=item is_pi

Return 1 if the element is a processing instruction (C<#PI>) element,
return 0 otherwise.

=item target

Return the target of a processing instruction

=item set_target (\$target)

Set the target of a processing instruction

=item data

Return the data part of a processing instruction

=item set_data (\$data)

Set the data of a processing instruction

=item set_pi (\$target, \$data)

Set the target and data of a processing instruction

=item pi_string

Return the string form of a processing instruction
(C<< <?target data?> >>)

=item is_comment

Return
1 if the element is a comment (C<#COMMENT>) element,
return 0 otherwise.

=item set_comment (\$comment_text)

Set the text for a comment

=item comment

Return the content of a comment (just the text, not the C<< <!-- >>
and C<< --> >>)

=item comment_string

Return the XML string for a comment (C<< <!-- comment --> >>)

Note that an XML comment cannot start or end with a '-', or include '--'
(<http://www.w3.org/TR/2008/REC-xml-20081126/#sec-comments>),
if that is the case (because you have created the comment yourself presumably,
as it could not be in the input XML), then a space will be inserted before
an initial '-', after a trailing one or between two '-' in the comment
(which could presumably mangle javascript "hidden" in an XHTML comment);

=item set_ent (\$entity)

Set an (non-expanded) entity (C<#ENT>). C<\$entity> is the entity
text (C<&ent;>)

=item ent

Return the entity for an entity (C<#ENT>) element (C<&ent;>)

=item ent_name

Return the entity name for an entity
(C<#ENT>) element (C<ent>)

=item ent_string

Return the entity, either expanded if the expanded version is available,

or non-expanded (C<&ent;>) otherwise

=item child (\$offset, \$optional_condition)

Return the C<\$offset>-th child of the element, optionally the C<\$offset>-th child that matches C<\$optional_condition>. The children are treated as a list, so C<< \$elt->child(0) >> is the first child, while C<< \$elt->child(-1) >> is the last child.

=item child_text (\$offset, \$optional_condition)

Return the text of a child or C<undef> if the sibling does not exist. Arguments are the same as child.

=item last_child (\$optional_condition)

Return the last child of the element, or the last child matching C<\$optional_condition> (ie the last of the element children matching the condition).

=item last_child_text (\$optional_condition)

Same as C<first_child_text> but for the last child.

=item sibling (\$offset, \$optional_condition)

Return the next or previous C<\$offset>-th sibling of the element, or the C<\$offset>-th one matching C<\$optional_condition>. If C<\$offset> is negative then a previous sibling is returned, if \$offset is positive then a next sibling is returned. C<\$offset=0> returns the element if there is no condition or if the element matches the condition, C<undef> otherwise.

=item sibling_text (\$offset, \$optional_condition)

Return the text of a sibling or C<undef> if the sibling does not exist. Arguments are the same as C<sibling>.

=item prev_siblings (\$optional_condition)

Return the list of previous siblings (optionally matching C<\$optional_condition>) for the element. The elements are ordered in document order.

=item next_siblings (\$optional_condition)

Return the list of siblings (optionally matching C<\$optional_condition>) following the element. The elements are ordered in document order.

=item siblings (\$optional_condition)

Return the list of siblings (optionally matching C<\$optional_condition>) of the element (excluding the element itself). The elements are ordered in document order.

=item pos (\$optional_condition)

Return the position of the element in the children list. The first child has a position of 1 (as in XPath).

If the C<\$optional_condition> is given then only siblings that match the condition are counted. If the element itself does not match the condition then 0 is returned.

=item atts

Return a hash ref containing the element attributes

=item set_atts ({ att1=>\$att1_val, att2=> \$att2_val... })

Set the element attributes with the hash ref supplied as the argument. The previous attributes are lost (ie the attributes set by C<set_atts> replace all of the attributes of the element).

You can also pass a list instead of a hashref: C<< \$elt->set_atts(att1 => 'val1',...) >>

=item del_atts

Deletes all the element attributes.

=item att_nb

Return the number of attributes for the element

=item has_atts

Return true if the element has attributes (in fact return the number of attributes, thus being an alias to C<L<att_nb>>

=item has_no_atts

Return true if the element has no attributes, false (0) otherwise

=item att_names

return a list of the attribute names for the element

```
=item att_xml_string ($att, $options)
```

Return the attribute value, where '&', '<' and quote (\" or the value of the quote option at twig creation) are XML-escaped.

The options are passed as a hashref, setting C<escape_gt> to a true value will also escape '>' (\$elt('myatt', { escape_gt => 1 }));

```
=item set_id ($id)
```

Set the C<id> attribute of the element to the value.
See C<L<elt_id> > to change the id attribute name

```
=item id
```

Gets the id attribute value

```
=item del_id ($id)
```

Deletes the C<id> attribute of the element and remove it from the id list for the document

```
=item class
```

Return the C<class> attribute for the element (methods on the C<class> attribute are quite convenient when dealing with XHTML, or plain XML that will eventually be displayed using CSS)

```
=item lclass
```

same as

class, except that

this method is an lvalue, so you can do C<< \$elt->lclass= "foo" >>

```
=item set_class ($class)
```

Set the C<class> attribute for the element to C<\$class>

```
=item add_class ($class)
```

Add C<\$class> to the element C<class> attribute: the new class is added only if it is not already present.

Note that classes are then sorted alphabetically, so the C<class> attribute can be changed even if the class is already there

=item remove_class (\$class)

Remove C<\$class> from the element C<class> attribute.

Note that classes are then sorted alphabetically, so the C<class> attribute can be changed even if the class is already there

=item add_to_class (\$class)

alias for add_class

=item att_to_class (\$att)

Set the C<class> attribute to the value of attribute C<\$att>

=item add_att_to_class (\$att)

Add the value of attribute C<\$att> to the C<class> attribute of the element

=item move_att_to_class (\$att)

Add the value of attribute C<\$att> to the C<class> attribute of the element
and
delete the attribute

=item tag_to_class

Set the C<class> attribute of the element to the element tag

=item add_tag_to_class

Add the element tag to its C<class> attribute

=item set_tag_class (\$new_tag)

Add the element tag to its C<class> attribute and sets the tag to C<\$new_tag>

=item in_class (\$class)

Return true (C<1>) if the element is in the class C<\$class> (if C<\$class> is one of the tokens in the element C<class> attribute)

=item tag_to_span

Change the element tag to C and set its class to the old tag

=item tag_to_div

Change the element tag to `C<div>` and set its class to the old tag

=item DESTROY

Frees the element from memory.

=item start_tag

Return the string for the start tag for the element, including the `C<< /> >>` at the end of an empty element tag

=item end_tag

Return the string for the end tag of an element. For an empty element, this returns the empty string (`"`).

=item xml_string @optional_options

Equivalent to `C<< $elt->sprint( 1) >>`, returns the string for the entire element, excluding the element's tags (but nested element tags are present)

The '`C<no_recurse>`' option will only return the text of the element, not of any included sub-elements (same as `C<L<xml_text_only>>>`).

=item inner_xml

Another synonym for `xml_string`

=item outer_xml

Another synonym for `sprint`

=item xml_text

Return the text of the element, encoded (and processed by the current `C<L<output_filter>>` or `C<L<output_encoding>>` options, without any tag.

=item xml_text_only

Same as `C<L<xml_text>>` except that the text returned doesn't include the text of sub-elements.

=item set_pretty_print (\$style)

Set the pretty print method, amongst '`C<none>`' (default), '`C<nsgmls>`', '`C<nice>`', '`C<indented>`', '`C<record>`' and '`C<record_c>`'

pretty_print styles:

=over 4

=item none

the default, no C<\n> is used

=item nsgmls

nsgmls style, with C<\n> added within tags

=item nice

adds C<\n> wherever possible (NOT SAFE, can lead to invalid XML)

=item indented

same

as C<nice> plus indents elements (NOT SAFE, can lead to invalid XML)

=item record

table-oriented pretty print, one field per line

=item record_c

table-oriented pretty print, more compact than C<record>, one record per line

=back

=item set_empty_tag_style (\$style)

Set the method to output empty tags, amongst 'C<normal>' (default), 'C<html>', and 'C<expand>',

C<normal> outputs an empty tag 'C<< <tag/> >>', C<html> adds a space 'C<< <tag /> >>' for elements that can be empty in XHTML and C<expand> outputs 'C<< <tag></tag> >>'

=item set_remove_cdata (\$flag)

set (or unset) the flag that forces the twig to output CDATA sections as regular (escaped) PCDATA

=item set_indent (\$string)

Set the indentation for the indented pretty print style (default is 2 spaces)

=item set_quote (\$quote)

Set the quotes used for attributes. can be 'C<double>' (default) or 'C<single>'

=item cmp (\$elt)

Compare the order of the 2 elements in a twig.

C<\$a> is the <A>.. element,

C<\$b> is the ... element

```
document          $a->cmp( $b)
<A> ... </A> ... <B> ... </B>  -1
<A> ... <B> ... </B> ... </A>  -1
<B> ... </B> ... <A> ... </A>   1
<B> ... <A> ... </A> ... </B>   1
$a == $b          0
$a and $b not in the same tree undef
```

=item before (\$elt)

Return 1 if C<\$elt> starts before the element, 0 otherwise. If the 2 elements are not in the same twig then return C<undef>.

```
if( $a->cmp( $b) == -1) { return 1; } else { return 0; }
```

=item after (\$elt)

Return 1 if \$elt starts after the element, 0 otherwise. If the 2 elements are not in the same twig then return C<undef>.

```
if( $a->cmp( $b) == -1) { return 1; } else { return 0; }
```

=item other comparison methods

=over 4

=item lt

=item le

=item gt

=item ge

=back

=item path

Return the element context in a form similar to XPath's short form: 'C</root/tag1/../tag>'

=item xpath

Return a unique XPath expression that can be used to find the element again.

It looks like C</doc/sect[3]/title>: unique elements do not have an index, the others do.

=item flush

flushes the twig up to the current element (strictly equivalent to C<< \$elt->root->flush >>)

=item private methods

Low-level methods on the twig:

=over 4

=item set_parent (\$parent)

=item set_first_child (\$first_child)

=item set_last_child (\$last_child)

=item set_prev_sibling (\$prev_sibling)

=item set_next_sibling (\$next_sibling)

=item set_twig_current

=item del_twig_current

=item twig_current

=item contains_text

=back

Those methods should not be used, unless of course you find some creative

and interesting, not to mention useful, ways to do it.

=back

=head2 cond

Most of the navigation functions accept a condition as an optional argument

The first element (or all elements for C<L<children> > or C<L<ancestors> >) that passes the condition is returned.

The condition is a single step of an XPath expression using the

XPath subset

defined by C<L<get_xpath>>. Additional conditions are:

The condition can be

=over 4

=item #ELT

return a "real" element (not a PCDATA, CDATA, comment or pi element)

=item #TEXT

return a PCDATA or CDATA element

=item regular expression

return an element whose tag matches the regexp. The regexp has to be created with C<qr//> (hence this is available only on perl 5.005 and above)

=item code reference

applies the code, passing the current element as argument, if the code returns true then the element is returned, if it returns false then the code is applied to the next candidate.

=back

=head2 XML::Twig::XPath

XML::Twig implements a subset of XPath through the C<L<get_xpath>> method.

If you want to use the whole XPath power, then you can use C<XML::Twig::XPath> instead. In this case C<XML::Twig> uses C<XML::XPath> to execute XPath queries. You will of course need C<XML::XPath> installed to be able to use C<XML::Twig::XPath>.

See L<XML::XPath> for more information.

The
methods you can use are:

=over 4

=item findnodes (\$path)

return a list of nodes found by C<\$path>.

=item findnodes_as_string (\$path)

return the nodes found reproduced as XML. The result is not guaranteed
to be valid XML though.

=item findvalue (\$path)

return the concatenation of the text content of the result nodes

=back

In order for C<XML::XPath> to be used as the XPath engine the following methods
are included in C<XML::Twig>:

in XML::Twig

=over 4

=item getRootNode

=item getParentNode

=item getChildNodes

=back

in XML::Twig::Elt

=over 4

=item string_value

=item toString

=item getName

=item getRootNode

=item getNextSibling

=item getPreviousSibling

=item isElementNode

=item isTextNode

=item isPI

=item isPINode

=item isProcessingInstructionNode

=item isComment

=item isCommentNode

=item getTarget

=item getChildNodes

=item getElementById

=back

=head2 XML::Twig::XPath::Elt

The methods you can use are the same as
on C<XML::Twig::XPath> elements:

=over 4

=item findnodes (\$path)

return a list of nodes found by C<\$path>.

=item findnodes_as_string (\$path)

return the nodes found reproduced as XML. The result is not guaranteed
to be valid XML though.

=item findvalue (\$path)

return the concatenation of the text content of the result nodes

=back

=head2 XML::Twig::Entity_list

=over 4

=item new

Create an entity list.

=item add (\$ent)

Add an entity to an entity list.

=item add_new_ent (\$name, \$val, \$sysid, \$pubid, \$ndata, \$param)

Create a new entity and add it to the entity list

=item delete (\$ent or \$tag).

Delete an entity (defined by its name or by the Entity object)
from the list.

=item print (\$optional_filehandle)

Print the entity list.

=item list

Return the list as an array

=back

=head2 XML::Twig::Entity

=over 4

=item new (\$name, \$val, \$sysid, \$pubid, \$ndata, \$param)

Same arguments as the Entity handler for XML::Parser.

=item
print (\$optional_filehandle)

Print an entity declaration.

=item name

Return the name of the entity

=item val

Return the value of the entity

=item sysid

Return the system id for the entity (for NDATA entities)

=item pubid

Return the public id for the entity (for NDATA entities)

=item ndata

Return true if the entity is an NDATA entity

=item param

Return true if the entity is a parameter entity

=item text

Return the entity declaration text.

=back

=head2 XML::Twig::Notation_list

=over 4

=item new

Create an notation list.

=item add (\$notation)

Add an notation to an notation list.

=item add_new_notation (\$name, \$base, \$sysid, \$pubid)

Create a new notation and add it to the notation list

=item delete (\$notation or \$tag).

Delete an notation (defined by its name or by the Notation object)

from the list.

=item print (\$optional_filehandle)

Print the notation list.

=item list

Return the list as an array

=back

=head2 XML::Twig::Notation

=over

4

=item new (\$name, \$base, \$sysid, \$pubid)

Same argumnotations as the Notation handler for XML::Parser.

=item print (\$optional_filehandle)

Print an notation declaration.

=item name

Return the name of the notation

=item base

Return the base to be used for resolving a relative URI

=item sysid

Return the system id for the notation

=item pubid

Return the public id for the notation

=item text

Return the notation declaration text.

=back

=head1 EXAMPLES

Additional examples (and a complete tutorial) can be found on the
F<XML::Twig PageL<<http://www.xmltwig.org/xmltwig/>>>

To figure out what flush does call the following script with an
XML file and an element name as arguments

```
use XML::Twig;

my ($file, $elt) = @ARGV;
my $t = XML::Twig->new( twig_handlers =>
    { $elt => sub { $_[0]->flush; print "\n[flushed here]\n"; } });
$t->parsefile( $file, ErrorContext => 2);
$t->flush;
print "\n";
```

=head1 NOTES

=head2 Subclassing XML::Twig

Useful
methods:

=over 4

=item elt_class

In order to subclass C<XML::Twig> you will probably need to subclass also
C<L<XML::Twig::Elt>>. Use the C<elt_class> option when you create the
C<XML::Twig> object to get the elements created in a different class
(which should be a subclass of C<XML::Twig::Elt>.

=item add_options

If you inherit C<XML::Twig> new method but want to add more options to it
you can use this method to prevent XML::Twig to issue warnings for those
additional options.

=back

=head2 DTD Handling

There are 3 possibilities here. They are:

=over 4

=item No DTD

No doctype, no DTD information, no entity information, the world is simple...

=item Internal DTD

The XML document includes an internal DTD, and maybe entity declarations.

If you use the `load_DTD` option when creating the twig the DTD information and the entity declarations can be accessed.

The DTD and the entity declarations will be C<flush>'ed (or C<print>'ed) either as is (if they have not been modified)

or as reconstructed (poorly, comments are lost, order is not kept, due to it's content this DTD should not be viewed by anyone) if they have been modified. You can also modify them directly by changing the C<< \$twig->{twig_doctype}->{internal} >> field (straight from XML::Parser, see the C<Doctype> handler doc)

=item External DTD

The XML document includes a reference to an external DTD, and maybe entity declarations.

If you use the C<load_DTD> when creating the twig the DTD information and the entity declarations can be accessed. The entity declarations will be C<flush>'ed (or C<print>'ed) either as is (if they have not been modified) or as reconstructed (badly, comments are lost, order is not kept).

You can change the doctype through the C<< \$twig->set_doctype >> method and print the dtd through the C<< \$twig->dtd_text >> or C<< \$twig->dtd_print >> methods.

If you need to modify the entity list this is probably the easiest way to do it.

=back

=head2 Flush

Remember that

element handlers are called when the element is CLOSED, so if you have handlers for nested elements the inner handlers will be called first. It makes it for example trickier than it would seem to number nested sections (or clauses, or divs), as the titles in the inner sections are handled before the outer sections.

=head1 BUGS

=over 4

=item segfault during parsing

This happens when parsing huge documents, or lots of small ones, with a version of Perl before 5.16.

This is due to a bug in the way weak references are handled in Perl itself.

The fix is either to upgrade to Perl 5.16 or later (C<perlbrew> is a great tool to manage several installations of perl on the same machine).

An other, NOT RECOMMENDED, way of fixing the problem, is to switch off weak references by writing C<XML::Twig::_set_weakrefs(0);> at the top of the code.

This is totally unsupported, and may lead to other problems though,

=item entity handling

Due to XML::Parser behaviour, non-base entities in attribute values disappear if

they are not declared in the document:

C<att="val&ent;"> will be turned into C<< att => val >>, unless you use the C<keep_encoding> argument to C<< XML::Twig->new >>

=item DTD handling

The DTD handling methods are quite bugged. No one uses them and it seems very difficult to get them to work in all cases, including with several slightly incompatible versions of XML::Parser and of libexpat.

Basically you can read the DTD, output it back properly, and update entities, but not much more.

So use XML::Twig with standalone documents, or with documents referring to an external DTD, but don't expect it to properly parse and even output back the DTD.

=item memory leak

If you use a REALLY old Perl (5.005!) and a lot of twigs you might find that you leak quite a lot of memory (about 2Ks per twig). You can use the C<L<dispose> > method to free that memory after you are done.

If you create elements the same thing might happen, use the `C<L<delete>>` method to get rid of them.

Alternatively installing the `C<Scalar::Util>` (or `C<WeakRef>`) module on a version of Perl that supports it (>5.6.0) will get rid of the memory leaks automatically.

=item ID list

The ID list is NOT updated when elements are cut or deleted.

=item `change_gi`

This method will not function properly if you do:

```
$twig->change_gi( $old1, $new);  
$twig->change_gi( $old2, $new);  
$twig->change_gi( $new, $seven_newer);
```

=item sanity check on `XML::Parser` method calls

`XML::Twig` should really prevent calls to some `XML::Parser` methods, especially the `C<setHandlers>` method.

=item pretty printing

Pretty printing (at least using the '`C<indented>`' style) is hard to get right! Only elements that belong to the document will be properly indented. Printing elements that do not belong to the twig makes it impossible for `XML::Twig` to figure out their depth, and thus their indentation level.

Also there is an unavoidable bug when using `C<flush>` and pretty printing for elements

with mixed content that start with an embedded element:

```
<elt><b>b</b>toto<b>bold</b></elt>
```

will be output as

```
<elt>  
<b>b</b>toto<b>bold</b></elt>
```

if you flush the twig when you find the `C<< <b> >>` element

=back

=head1 Globals

These are the things that can mess up calling code, especially if threaded.
They might also cause problem under mod_perl.

=over 4

=item Exported constants

Whether you want them or not you get them! These are subroutines to use
as constant when creating or testing elements

```
PCDATA return '#PCDATA'  
CDATA  return '#CDATA'  
PI      return '#PI', I had the choice between PROC and PI :--(
```

=item Module scoped values: constants

these should cause no trouble:

```
%base_ent= ( '>' => '&gt;','  
              '<' => '&lt;','  
              '&' => '&amp;','  
              "'" => '&apos;','  
              '"' => '&quot;','  
            );  
CDATA_START = "<![CDATA[";  
CDATA_END   = "]]>";  
PI_START    = "<?";  
PI_END      = "?>";  
COMMENT_START  
= "<!--";  
COMMENT_END = "-->";
```

pretty print styles

```
( $NSGMLS, $NICE, $INDENTED, $INDENTED_C, $WRAPPED, $RECORD1, $RECORD2)= (1..7);
```

empty tag output style

```
( $HTML, $EXPAND)= (1..2);
```

=item Module scoped values: might be changed

Most of these deal with pretty printing, so the worst that can
happen is probably that XML output does not look right, but is
still valid and processed identically by XML processors.

C<\$empty_tag_style> can mess up HTML browsers though and changing C<\$ID>

would most likely create problems.

```
$pretty=0;      # pretty print style
$quote="";      # quote for attributes
$INDENT=' ' ;    # indent for indented pretty print
$empty_tag_style= 0; # how to display empty tags
$ID             # attribute used as an id ('id' by default)
```

=item Module scoped values: definitely changed

These 2 variables are used to replace tags by an index, thus saving some space when creating a twig. If they really cause you too much trouble,

let me know, it is probably possible to create either a switch or at least a version of XML::Twig that does not perform this optimization.

```
%i2index;  # tag => index
@index2gi;  # list of tags
```

=back

If you need to manipulate all those values, you can use the following methods on the XML::Twig object:

=over 4

=item global_state

Return a hashref with all the global variables used by XML::Twig

The hash has the following fields: C<pretty>, C<quote>, C<indent>, C<empty_tag_style>, C<keep_encoding>, C<expand_external_entities>, C<output_filter>, C<output_text_filter>, C<keep_atts_order>

=item set_global_state (\$state)

Set the global state, C<\$state> is a hashref

=item save_global_state

Save the current global state

=item restore_global_state

Restore the previously saved (using C<Lsave_global_state>> state

=back

=head1 TODO

=over 4

=item SAX handlers

Allowing XML::Twig to work on top of any SAX parser

=item multiple twigs are not well supported

A number

of twig features are just global at the moment. These include the ID list and the "tag pool" (if you use C<change_gi> then you change the tag for ALL twigs).

A future version will try to support this while trying not to be too hard on performance (at least when a single twig is used!).

=back

=head1 AUTHOR

Michel Rodriguez <mirod@cpan.org>

=head1 LICENSE

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

Bug reports should be sent using:

F<RT L<<http://rt.cpan.org/NoAuth/Bugs.html?Dist=XML-Twig>>>

Comments can be sent to mirod@cpan.org

The XML::Twig page is at L<<http://www.xmltwig.org/xmltwig/>>

It includes the development version of the module, a slightly better version of the documentation, examples, a tutorial and a:

F<Processing XML efficiently with Perl and XML::Twig:

L<<http://www.xmltwig.org/xmltwig/tutorial/index.html>>>

=head1 SEE ALSO

Complete docs, including a tutorial, examples, an easier to use HTML version of

the docs, a quick reference card and a FAQ are available at

L<<http://www.xmltwig.org/xmltwig/>>

git repository at L<<http://github.com/mirod/xmltwig>>

L<XML::Parser>, L<XML::Parser::Expat>, L<XML::XPath>, L<Encode>,
L<Text::Iconv>, L<Scalar::Utils>

=head2 Alternative Modules

XML::Twig is not the only XML::Processing module available on CPAN (far from it!).

The main alternative I would recommend is L<XML::LibXML>.

Here is a quick comparison of the 2 modules:

XML::LibXML, actually C<libxml2> on which it is based, sticks to the standards, and implements a good number of them in a rather strict way: XML, XPath, DOM, RelaxNG, I must be forgetting a couple (XInclude?). It is fast and rather frugal memory-wise.

XML::Twig is older: when I started writing it XML::Parser/expat was the only game in town. It implements XML and that's about it (plus a subset of XPath, and you can use XML::Twig::XPath if you have XML::XPathEngine installed for full support). It is slower and requires

more memory for a full tree than

XML::LibXML. On the plus side (yes, there is a plus side!) it lets you process a big document in chunks, and thus let you tackle documents that couldn't be loaded in memory by XML::LibXML, and it offers a lot (and I mean a LOT!) of higher-level methods, for everything, from adding structure to "low-level" XML, to shortcuts for XHTML conversions and more. It also DWIMs quite a bit, getting comments and non-significant whitespaces out of the way but preserving them in the output for example. As it does not stick to the DOM, is also usually leads to shorter code than in XML::LibXML.

Beyond the pure features of the 2 modules, XML::LibXML seems to be preferred by "XML-purists", while XML::Twig seems to be more used by Perl Hackers who have to deal with XML. As you have noted, XML::Twig also comes with quite a lot of docs, but I am sure if you ask for help about XML::LibXML here or on Perlmonks you will get answers.

Note that it is actually quite

hard for me to compare the 2 modules: on one hand

I know XML::Twig inside-out and I can get it to do pretty much anything I need to (or I improve it ;--), while I have a very basic knowledge of XML::LibXML.

So feature-wise, I'd rather use XML::Twig ;--). On the other hand, I am painfully aware of some of the deficiencies, potential bugs and plain ugly code that lurk in XML::Twig, even though you are unlikely to be affected by them (unless for example you need to change the DTD of a document programmatically),

while I haven't looked much into XML::LibXML so it still looks shinny and clean to me.

That said, if you need to process a document that is too big to fit memory and XML::Twig is too slow for you, my reluctant advice would be to use "bare" XML::Parser. It won't be as easy to use as XML::Twig; basically with XML::Twig you trade some speed (depending on what you do from a factor 3 to... none) for ease-of-use, but it will be easier IMHO than using SAX (albeit not standard), and at this point a LOT faster (see the last test in [L<http://www.xmltwig.org/article/simple_benchmark/>](http://www.xmltwig.org/article/simple_benchmark/)).

=cut

Found in path(s):

* /libxml-twig-perl-3-52-orig-1-tar-gz/XML-Twig-3.52/Twig_pm.slow

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* /libxml-twig-perl-3-52-orig-1-tar-gz/XML-Twig-3.52/Twig.pm

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=head1 NAME

xml_split - cut a big XML file into smaller chunks

=head1 DESCRIPTION

C<xml_split> takes a (presumably big) XML file and split it in several smaller files. The memory used is the memory needed for the biggest chunk (ie memory is reused for each new chunk).

It can split at a given level in the tree (the default, splits children of the root), or on a condition (using the subset of XPath understood by XML::Twig, so C<section> or C</doc/section>).

Each generated file is replaced by a processing instruction that will allow C<xml_merge> to rebuild the original document. The processing instruction format is C<< <?merge subdocs=[01] :<filename> ?> >>

File names are <file>-<nb>.xml, with <file>-00.xml holding the main document.

=head1 OPTIONS

=over 4

=item -l <level>

level to cut at: 1 generates a file for each child of the root, 2 for each grand child

defaults to 1

=item -c <condition>

generate

a file for each element that passes the condition

xml_split -c <section> will put each C<section> element in its own file (nested sections are handled too)

Note that at the moment this option is a lot slower than using C<-l>

=item -s <size>

generates files of (approximately) <size>. The content of each file is enclosed in a new element (C<xml_split::root>), so it's well-formed XML. The size can be given in bytes, Kb, Mb or Gb.

=item -g <nb>

groups <nb> elements in a single file. The content of each file is enclosed in a new element (C<xml_split::root>), so it's well-formed XML.

=item -b <name>

base name for the output, files will be named <base>-<nb><.ext>

<nb> is a sequence number, see below C<--nb_digits>

<ext> is an extension, see below C<--extension>

defaults to the original file name (if available) or C<out> (if input comes from the standard input)

=item -n <nb>

number of digits in the sequence number for each file

if more digits than <nb> are needed, then they are

used: if C<--nb_digits 2> is used

and 112 files are generated they will be named C<< <file>-01.xml >> to C<< <file>-112.xml >>

defaults to 2

=item -e <ext>

extension to use for generated files

defaults to the original file extension or C<.xml>

=item -i

use XInclude elements instead of Processing Instructions to mark where sub files need to be included

=item -v

verbose output

Note that this option can slow down processing considerably (by an order of magnitude) when generating lots of small documents

=item -V

outputs version and exit

=item -h

short help

=item -m

man (requires pod2text to be in the path)

=back

=head1 EXAMPLES

```
xml_split foo.xml      # split at level 1
xml_split -l 2 foo.xml  # split at level 2
xml_split -c section foo.xml # a file is generated for each section element
                        # nested sections are split properly
```

=head1 SEE ALSO

XML::Twig, xml_merge

=head1 TODO

=over 4

=item optimize the code

any idea

welcome! I have already implemented most of what I thought would improve performances.

=item provide other methods that PIs to keep merge information

XInclude is a good candidate (alpha support added in 0.04).

using entities, which would seem the natural way to do it, doesn't work, as they make it impossible to have both the main document and the sub docs to be well-formed if the sub docs include sub-sub docs (you can't have entity declarations in an entity)

=back

=head1 AUTHOR

Michel Rodriguez <mirod@cpan.org>

=head1 LICENSE

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Found in path(s):

* /libxml-twig-perl-3-52-orig-1-tar-gz/XML-Twig-3.52/tools/xml_split/xml_split

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

abstract: 'XML, The Perl Way'

author:

- 'Michel Rodriguez <mirod@cpan.org>'

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.1001, CPAN::Meta::Converter version 2.150005'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: XML-Twig

no_index:

directory:

- t
- inc
requires:
XML::Parser: '2.23'
resources:
repository: <http://github.com/mirod/xmltwig>
version: '3.52'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /libxml-twig-perl-3-52-orig-1-tar-gz/XML-Twig-3.52/META.yml
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=head1 NAME

xml_merge - merge back XML files split with C<xml_split>

=head1 DESCRIPTION

C<xml_merge> takes several xml files that have been split using
C<xml_split> and recreates a single file.

=head1 OPTIONS

=over 4

=item -o <output_file>

unless this option is used the program output goes to STDOUT

=item -i

the files use XInclude instead of processing instructions (they
were created using the C<-i> option in C<xml_split>)

=item -v

verbose output

=item -V

outputs version and exit

=item -h

short help

=item -m

man (requires pod2text to be in the path)

=back

=head1 EXAMPLES

```
xml_merge foo-00.xml          # output to stdout
xml_merge -o foo.xml foo-00.xml # output to foo.xml
```

=head1 SEE ALSO

XML::Twig, xml_split

=head1 TODO/BUGS

=head1 AUTHOR

Michel Rodriguez <mirod@cpan.org>

=head1 LICENSE

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Found in path(s):

```
* /libxml-twig-perl-3-52-orig-1-tar-gz/XML-Twig-3.52/tools/xml_merge/xml_merge
No license file was found, but licenses were detected in source scan.
```

=head1 NAME

xml_spellcheck - spellcheck XML files

=head1 SYNOPSIS

```
xml_spellcheck [options] <files>
```

=head1 DESCRIPTION

xml_spellcheck lets you spell check the content of an XML file. It extracts the text (the content of elements and optionally of attributes), call a spell checker on it and then recreates the XML document.

=head1 OPTIONS

Note that all options can be abbreviated to the first letter

=over 4

=item --conf <configuration_file>

Gets the options from a configuration file. NOT IMPLEMENTED YET.

=item --spellchecker <spellchecker>

The command to use for spell checking, including any option

By default C<aspell -c> is used

=item --backup-extension <extension>

By default the original file is saved with a C<.bak> extension. This option changes the extension

=item --attributes

Spell check attribute content. By default attribute values are NOT spell checked. NOT YET IMPLEMENTED

=item --exclude_elements
<list_of_excluded_elements>

A list of elements that should not be spell checked

=item --include_elements <list_of_included_elements>

A list of elements that should be spell checked (by default all elements are spell checked).

C<--exclude_elements> and C<--include_elements> are mutually exclusive

=item --pretty_print <optional_pretty_print_style>

A pretty print style for the document, as defined in XML::Twig. If the option is provided without a value then the C<indented> style is used

=item --version

Display the tool version and exit

=item --help

Display help message and exit

=item --man

Display longer help message and exit

=back

=head1 EXAMPLES

=head1 BUGS

=head1 TODO

=over 4

=item --conf option

=item --attribute option

=back

=head1 PRE-REQUISITE

XML::Twig, Getopt::Long, Pod::Usage, File::Temp

XML::Twig requires XML::Parser.

=head1 SEE ALSO

XML::Twig

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=head1 AUTHOR

Michel Rodriguez <mirod@xmlltwig.com>

xml_spellcheck is available at <http://www.xmlltwig.com/xmlltwig/>

Found in path(s):

* /libxml-twig-perl-3-52-orig-1-tar-gz/XML-Twig-3.52/tools/xml_spellcheck/xml_spellcheck

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NAME

XML::Twig - Tree interface to XML documents allowing processing chunk
by chunk of huge documents.

SUMMARY (see perldoc XML::Twig for full details)

XML::Twig is (yet another!) XML transformation module.

Its strong points: can be used to process huge documents while still
being in tree mode; not bound by DOM or SAX, so it is very perlish and
offers a very comprehensive set of methods; simple to use; DWIMs as
much as possible

What it doesn't offer: full SAX support (it can export SAX, but only
reads XML), full XPath support (unless you use XML::Twig::XPath), nor
DOM support.

Other drawbacks: it is a big module, and with over 500 methods available
it can be a bit overwhelming. A good starting point is the tutorial at
<http://xmlltwig.org/xmlltwig/tutorial/index.html>. In fact the whole
XML::Twig page at <http://xmlltwig.org/xmlltwig/> has plenty of information
to get you started
with XML::Twig

TOOLS

XML::Twig comes with a few tools built on top of it:

xml_pp	XML pretty printer
xml_grep	XML grep - grep XML files using XML::Twig's subset of XPath
xml_split	split big XML files
xml_merge	merge back files created by xml_split
xml_spellcheck	spellcheck XML files skipping tags

Running perl Makefile.PL will prompt you for each tool installation.

perl Makefile.PL -y will install all of the tools without prompt

perl Makefile.PL -n will skip the installation of the tools

SYNOPSIS

single-tree mode

```
my $t= XML::Twig->new();
$t->parsefile( 'doc.xml');
$t->print;
```

chunk mode

```
# print the document, at most one full section is loaded in memory
my $t= XML::Twig->new( twig_handlers => { section => \&flush});
$t->parsefile( 'doc.xml');
$t->flush;
sub flush { (my $twig, $section)= @_; $twig->flush; }
```

sub-tree mode

```
# print all section title's in the document,
# all
```

other elements are ignored (and not stored)

```
my $t= XML::Twig->new(
    twig_roots => { 'section/title' => sub { $_->print, "\n" } }
);
$t->parsefile( 'doc.xml');
```

INSTALLATION

perl Makefile.PL

make

make test

make install

DEPENDENCIES

XML::Twig needs XML::Parser (and the expat library) installed

Modules that can enhance XML::Twig are:

Scalar::Util or WeakRef

to avoid memory leaks

Encode or Text::Iconv or Unicode::Map8 and Unicode::Strings

to do encoding conversions

Tie::IxHash

to use the keep_atts_order option

XML::XPathEngine

to use XML::Twig::XPath
LWP
to use parseurl
HTML::Entities
to use the html_encode filter
HTML::TreeBuilder
to process HTML instead of XML

CHANGES

See the Changes file

AUTHOR

Michel Rodriguez (mirod@cpan.org)
The Twig page is at <http://www.xmltwig.org/xmltwig>
git project repository: <http://github.com/mirod/xmltwig>
See the XML::Twig tutorial at <http://www.xmltwig.org/xmltwig/tutorial/index.html>

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Found in path(s):

* /libxml-twig-perl-3-52-orig-1-tar-gz/XML-Twig-3.52/README

1.361 sprintf-js 1.1.3

1.361.1 Available under license :

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1.362 npm-install-checks 6.3.0

1.362.1 Available under license :

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1.363 @tufjs/canonical-json 2.0.0

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1.364 bash 5.1-6ubuntu1.1

1.364.1 Available under license :

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Version 2, June 1991

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@c ispell-local-pdict: "ispell-dict"
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man/fgetln.3bsd
man/fgetwln.3bsd
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src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/freezero.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
src/getentropy_solaris.c
src/getentropy_win.c
src/readpassphrase.c
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1.369 util-linux 2.37.2-4ubuntu3.4

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#####

Constant-time SSSE3 AES core implementation.

```
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#####

Constant-time SSSE3 AES core implementation.

version 0.1

##

By Mike Hamburg (Stanford University), 2009

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##

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```
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1.375 node-gyp 10.1.0

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1.381 zlib 1.3.0.1

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1.382 npm-package-arg 11.0.2

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1.383 proc-log 4.2.0

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1.384 nghttp2 1.43.0-1ubuntu0.2

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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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1.385 proggy 2.0.0

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1.386 Iru-cache 10.2.2

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1.387 make-fetch-happen 13.0.1

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1.390 qrcode-terminal 0.12.0

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1.394 yallist 4.0.0

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1.395 json-parse 1.3.1

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1.396 validate-npm-package-license 3.0.4

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validate-npm-package-license

=====

Give me a string and I'll tell you if it's a valid npm package license string.

```
```javascript
var valid = require('validate-npm-package-license');
```
```

SPDX license identifiers are valid license strings:

```
```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
```

```

assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
...

```

The function will return a warning and suggestion for nearly-correct license identifiers:

```

```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
...

```

SPDX expressions are valid, too ...

```

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
...

```

... except if they contain `LicenseRef`:

```

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
  ]
};

assert.deepEqual(

```

```

    valid('LicenseRef-Made-Up'),
    warningAboutLicenseRef
  );

  assert.deepEqual(
    valid('(MIT OR LicenseRef-Made-Up)'),
    warningAboutLicenseRef
  );
  ...

```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
 validForNewPackages: true,
 validForOldPackages: true,
 inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
 validForNewPackages: true,
 validForOldPackages: true,
 inFile: 'license.md'
 }
);
...

```

If there aren't any licensing terms, use `UNLICENSED`:

```

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENSED'), unlicensed);
...

```

1.397 retry 0.12.0

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Tim Koschitzki (tim@debuggable.com)

Felix Geisendrfer (felix@debuggable.com)

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1.398 strip-ansi 6.0.1

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1.399 minizlib 2.1.2

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1.400 iconv-lite 0.6.3

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1.401 encoding 0.1.13

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1.402 minipass-sized 1.0.3

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1.403 common-ancestor-path 1.0.1

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1.404 text-table 0.2.0

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1.406 mkdirp 1.0.4

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1.412 promise-inflight 1.0.1

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1.414 tar 6.2.1

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1.415 shebang-command 2.0.0

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1.416 cross-spawn 7.0.3

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1.417 graceful-fs 4.2.11

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1.418 fastest-levenshtein 1.0.16

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1.419 cli-columns 4.0.0

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1.420 minipass-pipeline 1.2.4

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1.421 promise-all-reject-late 1.0.1

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1.422 nopt 7.2.1

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1.423 x-sys 0.20.0

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1.424 semver 7.6.2

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1.426 minipass-fetch 3.0.5

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<https://github.com/bitinn/node-fetch>

1.427 path-scurry 1.11.1

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1.428 @npmcli/fs 3.1.1

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"threeparttable",
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"xkeyboard-config-Zinoviev",
"xlock",
"xpp",
"xzoom",
"zlib-acknowledgement"
]
# spdx-license-ids

```

```

[![npm version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.com/package/spdx-license-ids)
[![Github Actions](https://action-badges.now.sh/jslicense/spdx-license-ids)](https://wdp9fww0r9.execute-api.us-west-2.amazonaws.com/production/results/jslicense/spdx-license-ids)

```

A list of [SPDX license](https://spdx.org/licenses/) identifiers

Installation

[Download JSON directly](https://raw.githubusercontent.com/jslicense/spdx-license-ids/main/index.json), or
[use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```

...

```

```

npm install spdx-license-ids
...

```

[Node.js](https://nodejs.org/) API

```

### require('spdx-license-ids')

```

Type: `string[]`

All license IDs except for the currently deprecated ones.

```

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0');
//=> true

ids.includes('GPL-3.0'); //=> false
```

```

```

### require('spdx-license-ids/deprecated')

```

Type: `string[]`

Deprecated license IDs.

```

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

```

```

## License

```

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1.430 minipass 7.1.2

1.430.1 Available under license :

ISC

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1.431 postcss-selector-parser 6.1.0

1.431.1 Available under license :

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MIT

1.432 glibc 2.35-0ubuntu3.8

1.432.1 Available under license :

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@center Version 2.1, February 1999

@c This file is intended to be included within another document,

@c hence no sectioning command or @node.

@display

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@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0

@item

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@item

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

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@smallexample

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1.433 debug 4.3.5

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1.434 json-parse-even-better-errors 3.0.2

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1.435 npm-bundled 3.0.1

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1.440 init-package-json 6.0.3

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1.449 @tufjs/models 2.0.1

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ISC

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Graphic -

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158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}},{"i":{"i":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-24,20.5]],"o":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[25.878,-22.104]],"v":["-166,-140],[-171.5,-163],[-155,-160.5],[-169.5,-181.5],[-150.5,-178.5],[-166.5,-198.5],[-144,-194.5],[-166,-224.5],[-122,-308.5]],"c":false}}},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":299,"s":{"i":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-24,20.5]],"o":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[25.878,-22.104]],"v":["-166,-140],[-171.5,-163],[-155,-160.5],[-169.5,-181.5],[-150.5,-178.5],[-166.5,-198.5],[-144,-194.5],[-166,-224.5],[-122,-308.5]],"c":false}},{"e":{"i":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":["-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}}},{"i":{"x":0.833,"y":1},"o":{"x":0.167,"y":0.167},"n":"0p833_1_0p167_0p167","t":314,"s":{"i":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":["-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}},{"e":{"i":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-33,24.5]],"o":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[37.909,-28.145]],"v":["-166,-140],[-175.5,-162],[-158,-172.5],[-190.5,-177.5],[-161.5,-195.5],[-196.5,-192.5],[-170,-214.5],[-199,-215.5],[-139,-319.5]],"c":false}}},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0},"n":"0p833_0p833_0p167_0","t":315,"s":{"i":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-33,24.5]],"o":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[37.909,-28.145]],"v":["-166,-140],[-175.5,-162],[-158,-172.5],[-190.5,-177.5],[-161.5,-195.5],[-196.5,-192.5],[-170,-214.5],[-199,-215.5],[-139,-319.5]],"c":false}},{"e":{"i":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-24,20.5]],"o":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[25.878,-22.104]],"v":["-166,-140],[-171.5,-163],[-155,-160.5],[-169.5,-181.5],[-150.5,-178.5],[-166.5,-198.5],[-144,-194.5],[-166,-224.5],[-122,-308.5]],"c":false}}},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":329,"s":{"i":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-24,20.5]],"o":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[25.878,-22.104]],"v":["-166,-140],[-171.5,-163],[-155,-160.5],[-169.5,-181.5],[-150.5,-178.5],[-166.5,-198.5],[-144,-194.5],[-166,-224.5],[-122,-308.5]],"c":false}},{"e":{"i":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":["0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":["-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}}},{"t":344}],{"nm":"Path 1","mn":"ADBE Vector Shape - Group"},"ty":"st","fillEnabled":true,"c":{"k":["0,0,0,1]"},"o":{"k":100},"w":{"k":2},"lc":2,"lj":2,"nm":"Stroke 1","mn":"ADBE Vector Graphic - Stroke"},"ty":"tr","p":{"k":["-167.461,-139.945]","ix":2},"a":{"k":["-167.461,-139.945]","ix":1},"s":{"k":["100,100]","ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Shape 1","np":3,"mn":"ADBE Vector Group"},"ip":0,"op":300,"st":0,"bm":0,"sr":1},{ "ddd":0,"ind":13,"ty":0,"nm":"Shape Layer 2 Comp 1","refId":"comp_19","ks":{"o":{"k":100},"r":{"k":0},"p":{"k":["342,972,0]"},"a":{"k":["45,45,0]"},"s":{"k":["90,90,100]}},"ao":0,"w":90,"h":90,"ip":0,"op":300,"st":0,"bm":0,"sr":1},{ "ddd":0,"ind":14,"ty":4,"nm":"Shadow","ks":{"o":{"k":15},"r":{"k":0},"p":{"k":["590,594,0]"},"a":{"k":["0,0,0]"},"s":{"k":{"i":{"x":0.833,0.833,0.833},"y":0.833,0.833,0.833}},"o":{"x":["0.167,0.167,0.167]","y":["0.167,0.167,0.167]"},"n":["0p833_0p833_0p167_0p167","0p833_0p833_0p167_0p167","0p833_0p833_0p167_0p167"],"t":0,"s":["108,100,100]","e":["103.372,100,100]"},"i":{"x":["0.833,0.833,0.833]","y":["0.833,0.833,0.833]"},"o":{"x":["0.167,0.167,0.167]","y":["0.167,0.167,0.167]"},"n":["0p833_0p833_0p167_0p167","0p833_0p833_0p167_0p167","0p833_0p833_0p167_0p167"],"t":15,"s":["103.372,100,100]","e":["108,100,100]"},"i":{"x":["0.833,0.833,0.833]","y":["0.833,0.833,0.833]"},"o":{"x":["0.167,0.167,0.167]","y":["0.167,0.167,0.167]}}

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1.455 libaom 3.6.1-1084-g5f8db64abc

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Found in path(s):

* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/arm/config/aom_config.asm
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/arm-neon-cpu-detect/config/aom_config.asm
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/arm64-cpu-detect/config/aom_config.asm
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/generic/config/aom_config.asm
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/win/arm64-cpu-detect/config/aom_config.asm
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/arm-neon/config/aom_config.asm

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Name: Alliance for Open Media Video Codec

Short Name: libaom

URL: <https://aomedia.googlesource.com/aom/>

Version: 0

Date: Monday August 28 2023

Revision: 5f8db64abce68a3698fb732697ae50880bc9cac4

CPEPrefix: cpe:/a:aomedia:aomedia:3.6.1

License: BSD

License File: source/libaom/LICENSE

Security Critical: yes

Shipped: yes

Description:

Provides tools for:

- creating AV1 bitstreams for storage and transmission.
- decoding AV1 bitstreams for display.

Please follow these steps to update libaom source code:

1. Update the code:

```
roll_dep.py \  
-r <libaom OWNER> \  

```

```
--log-limit 20 \  
--roll-to <libaom hash> \  
src/third_party/libaom/source/libaom
```

Use the generated commit message for the roll.

Note: When running roll_dep.py on a Chrome release branch, we get the error message:

error: Ensure chromium/src is clean first (no non-merged commits).

because the is_prestine() function in roll_dep.py runs git diff against origin/main. A workaround is to edit roll_dep.py and change 'origin/main' to the release branch, e.g., 'branch-heads/5414' for the Chrome M109 release branch. Remember to change it back to 'origin/main' after running roll_dep.py.

2. Generate the config files:

```
# See prerequisites in file comments.  
./cmake_update.sh
```

This will also update this file with the new revision.

Update 'Version' and 'CPEPrefix' in this file if necessary.

3. Amend the commit created by the first step:

```
git commit -a --amend
```

4. Upload the change to Gerrit:

```
git cl upload
```

Run tryjobs:

```
git cl try
```

5. Send out for review when all tryjobs pass. Submit it when +1 is granted.

Found in path(s):

```
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/README.chromium  
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```

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/*
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* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/win/x64/config/aom_config.h
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/ia32/config/aom_config.c
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/arm-neon/config/aom_config.h
*
/src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/arm64-cpu-detect/config/aom_config.c
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/win/x64/config/aom_config.c
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/config/aom_version.h
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/generic/config/aom_config.c
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/win/arm64-cpu-detect/config/aom_config.h
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/arm/config/aom_config.c
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/arm/config/aom_config.h
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/x64/config/aom_config.c
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/win/ia32/config/aom_config.h
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/arm-neon-cpu-
detect/config/aom_config.c
*
/src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/generic/config/aom_config.h
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/arm-neon-cpu-
detect/config/aom_config.h
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/x64/config/aom_config.h
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/ia32/config/aom_config.h
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/win/ia32/config/aom_config.c
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/arm-neon/config/aom_config.c
* /src-refs-tags-118-0-5993-220-third-party-libaom-tar-gz/source/config/linux/arm64-cpu-
detect/config/aom_config.h

1.456 glew 2.1.21845

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Mesa 3-D graphics library

Version: 7.0

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1.458 libpng 1.6.43

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1.461 glob 10.4.2

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1.477 https-proxy-agent 7.0.5

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1.485 vte 0.68.0-1ubuntu0.1

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"SWL",
"Saxpath",
"SchemeReport",
"Sendmail",
"Sendmail-8.23",
"SimPL-2.0",
"Sleepycat",
"Soundex",
"Spencer-86",
"Spencer-94",
"Spencer-99",
"SugarCRM-1.1.3",
"Sun-PPP",
"Sun-PPP-2000",
"SunPro",
"Symlinks",
"TAPR-OHL-1.0",
"TCL",
"TCP-wrappers",
"TGPPL-1.0",
"TMate",
"TORQUE-1.1",
"TOSL",
"TPDL",
"TPL-1.0",
"TTWL",
"TTYPO",
"TU-Berlin-1.0",
"TU-Berlin-2.0",

"TermReadKey",
"UCAR",
"UCL-1.0",
"UMich-Merit",
"UPL-1.0",
"URT-RLE",
"Unicode-3.0",
"Unicode-DFS-2015",
"Unicode-DFS-2016",
"Unicode-TOU",
"UnixCrypt",
"Unlicense",
"VOSTROM",
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"Vim",
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"W3C-20150513",
"WTFPL",
"Watcom-1.0",
"Widget-Workshop",
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"mplus",
"pkgconf",
"pnmstitch",
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"radvd",
"snprintf",
"softSurfer",
"ssh-keyscan",
"swrule",
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Version 1.0.0

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1.492 libnpmpack 7.0.4

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1.493 libnpmfund 5.0.12

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1.494 @npmcli/redact 2.0.1

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1.495 npm-pick-manifest 9.1.0

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1.497 safer-buffer 2.1.2

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1.500 binary-extensions 2.3.0

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1.501 alpine-keys 2.5-r0

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Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=alpine-keys

pkgver=2.5

pkgrel=0

pkgdesc="Public keys for Alpine Linux packages"

url="https://alpinelinux.org"

we install arch specific keys to /etc so we cannot do arch=noarch

arch="all"

license="MIT"

replaces="alpine-base"

1.502 e2fsprogs 1.46.5-2ubuntu1.2

1.502.1 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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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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```

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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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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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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
- + Copyright (C) Jeremy Allison 2000-2006
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Gadi Oxman, August 1995

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

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

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

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

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Any executables

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1.517 cups 2.4.1op1-1ubuntu4.11

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

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Version 3, 29 June 2007

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1.522 corepack 0.29.4

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1.524 glib 2.72.4-0ubuntu2.4

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C++ Big Integer Library
(see ChangeLog for version)

<http://mattmccutchen.net/bigint/>

Written and maintained by Matt McCutchen <matt@mattmccutchen.net>

You can use this library in a C++ program to do arithmetic on integers of size
limited only by your computer's memory. The library provides `BigUnsigned` and
`BigInteger` classes that represent nonnegative integers and signed integers,
respectively. Most of the C++ arithmetic operators are overloaded for these
classes, so big-integer calculations are as easy as:

```
#include "BigIntegerLibrary.hh"
```

```
BigInteger a = 65536;  
cout << (a * a * a * a * a * a * a * a * a * a);
```

```
(prints 340282366920938463463374607431768211456)
```

The code in ``sample.cc'` demonstrates the most important features of the library.
To get started quickly, read the code and explanations in that file and run it.
If you want more detail or a feature not shown in ``sample.cc'`, consult
the
consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed;
some users will prefer GMP (<http://swox.com/gmp/>), which is faster. The code is
intended to be reasonably portable across computers and modern C++ compilers; in
particular, it uses whatever word size the computer provides (32-bit, 64-bit, or
otherwise).

Compiling programs that use the library

The library consists of a folder full of C++ header files (`.hh`) and source files (`.cc`). Your own programs should `#include` the necessary header files and link with the source files. A makefile that builds the sample program (`.sample.cc`) is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked with the library source files; otherwise, you will get errors about missing header files or "undefined references". To learn how to do this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

Resources

The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

Bugs and enhancements

The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++).

I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

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2006-Jan-27

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If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

o [freetype-devel@nongnu.org](mailto:freetype-devel@nongnu.org)

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

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## 1.537 leveldb

## 068d5ee1a3ac40dabd00d211d5013af44be55b

## ea

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## 1.538 blink 118.0.5993.70

### 1.538.1 Available under license :

Verifies that a deprecation issue is created when a deprecated permission string is used.

```
Inspector issue: {  
  issue : {  
    code : DeprecationIssue  
    details : {  
      deprecationIssueDetails : {  
        affectedFrame : {  
          frameId : <string>  
        }  
        sourceCodeLocation : {  
          columnNumber : 23  
          lineNumber : 0  
          scriptId : <string>  
        }  
      }  
    }  
  }  
}
```



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<body>

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Issue reported: {

code : AttributionReportingIssue



```
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  attributionReportingIssueDetails : {  
    violatingNodeId : <number>  
    violationType : PermissionPolicyDisabled  
  }  
}  
}
```

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CONSOLE MESSAGE: Blink Test Plugin: initializing

PASS: first plugin loaded

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Test that clicking an anchor with valueless attributionsrc triggers an issue when the attribution-reporting Permissions Policy is disabled.

```
Issue reported: {
  code : AttributionReportingIssue
  details : {
    attributionReportingIssueDetails : {
      violatingNodeId : <number>
      violationType : PermissionPolicyDisabled
    }
  }
}
```

This is a testharness.js-based test.

FAIL Query "push" powerful feature promise\_test: Unhandled rejection with value: object "NotSupportedError: Failed to execute 'query' on 'Permissions': Push Permission without userVisibleOnly:true isn't supported yet."

Harness: the test ran to completion.

Supports-Loading-Mode: fenced-frame

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This directory is for testing PrivateNetworkAccessPermissionPrompt (<https://crbug.com/1338438>).

Verifies that a deprecation issue is created when a page header includes a deprecated permission policy.

Inspector issue: {

issue : {

code : DeprecationIssue

details : {

deprecationIssueDetails : {

affectedFrame : {

frameId : <string>

}

sourceCodeLocation : {

columnNumber : 0

lineNumber : -1

url : <http://127.0.0.1:8000/inspector-protocol/resources/permissions-policy-deprecated.php>

}

type : WindowPlacementPermissionPolicyParsed

}

}

}

}

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

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```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!DOCTYPE html
```

```
  PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
```

```
  "xhtml1-strict.dtd">
```

```
<html xmlns='http://www.w3.org/1999/xhtml'>
```

```
<head>
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
</head>
```

```
<body>
```

```
<h1>
```

```
  W3C IPR SOFTWARE NOTICE
```

```
</h1>
```

```
<h3>
```

```
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```

```
</h3>
```

```
<p>
```

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</p>
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<p>
```

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</p>
</body>
</html>
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html
PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>W3C IPR SOFTWARE NOTICE</title>
</head>
<body>
<h1>
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</h1>
<h3>
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`</body>`

`</html>`

This is a testharness.js-based test.

PASS public to local with local targetAddressSpace option: success.

FAIL public to local with local targetAddressSpace option: PUT success. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined

FAIL public to local with private targetAddressSpace option: failed. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined

FAIL public to local with private targetAddressSpace option: PUT failed. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined

PASS public to local with public targetAddressSpace option: failed.

PASS public to local with public targetAddressSpace option: PUT failed.

FAIL public to private with local targetAddressSpace option: failed. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined

FAIL public to private with local targetAddressSpace option: PUT failed. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined  
PASS public to private with private targetAddressSpace option: success.  
FAIL public to private with private targetAddressSpace option: PUT success. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined  
PASS public to private with public targetAddressSpace option: failed.  
PASS public to private with public targetAddressSpace option: PUT failed.  
PASS public to public with local targetAddressSpace option: failed.  
FAIL public to public with local targetAddressSpace option: PUT failed. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined  
PASS public to public with private targetAddressSpace option: failed.  
FAIL public to public with private targetAddressSpace option: PUT failed. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined  
PASS public to public with public targetAddressSpace option: failed.  
PASS public to public with public targetAddressSpace option: PUT failed.  
Harness: the test ran to completion.  
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Cross-Origin-Embedder-Policy: require-corp

Cross-Origin-Opener-Policy: same-origin

PASS: Navigation relative to base element.

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This is a testharness.js-based test.

PASS private to local with local targetAddressSpace option: success.

FAIL private to local with local targetAddressSpace option: PUT success. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined

FAIL private to local with private targetAddressSpace option: failed. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined

FAIL private to local with private targetAddressSpace option: PUT failed. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined

PASS private to local with public targetAddressSpace option: failed.

PASS private to local with public targetAddressSpace option: PUT failed.

PASS private to private with local targetAddressSpace option: failed.

FAIL private to private with local targetAddressSpace option: PUT failed. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined

PASS

private to private with private targetAddressSpace option: failed.

FAIL private to private with private targetAddressSpace option: PUT failed. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined

PASS private to private with public targetAddressSpace option: failed.

PASS private to private with public targetAddressSpace option: PUT failed.

PASS private to public with local targetAddressSpace option: failed.

FAIL private to public with local targetAddressSpace option: PUT failed. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined

PASS private to public with private targetAddressSpace option: failed.

FAIL private to public with private targetAddressSpace option: PUT failed. assert\_equals: error expected (string) "TypeError: Failed to fetch" but got (undefined) undefined

PASS private to public with public targetAddressSpace option: failed.

PASS private to public with public targetAddressSpace

option: PUT failed.

Harness: the test ran to completion.

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This test copies and pastes content inside a body with background and text-decoration properties. WebKit should not nest body.

```
| "  
| "  
| <ul>  
| "  
| "  
| <li>  
| "hello, world "  
| <a>  
| href="http://www.webkit.org/"  
| "WebKit"  
| "  
| "  
| <li>  
| "Copied content"  
| <li>  
| "hello, world"  
| <a>  
| href="http://www.webkit.org/"  
| "WebKit"  
| <li>  
| "Copied content<#selection-caret>"
```

| "  
"  
| "  
"  
| "  
"

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This test verifies that all access to localStorage can be blocked

Length is 0

Value for FOO is null

Length is 1

Value for FOO is BAR

Key for index 0 is FOO

Disabling localStorage access.

Caught exception trying to get frame localStorage: SecurityError: Failed to read the 'localStorage' property from  
'Window': Access is denied for this document.

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Detaching a frame should bypass it's cached permissionclient state in StorageAreaProxy.

On success, you will see a series of "PASS" messages, followed by "TEST COMPLETE".

PASS storage.length threw exception SecurityError: Failed to read the 'length' property from 'Storage': access is denied for this document..

PASS storage.getItem('foo') threw exception SecurityError: Failed to execute 'getItem' on 'Storage': access is denied for this document..

PASS storage.setItem('foo', 'bar') threw exception SecurityError: Failed to execute 'setItem' on 'Storage': access is denied for this document..

PASS storage.key(0) threw exception SecurityError: Failed to execute 'key' on 'Storage': access is denied for this document..

PASS storage.clear() threw exception SecurityError: Failed to execute 'clear' on 'Storage': access is denied for this document..

PASS successfullyParsed is true

TEST COMPLETE

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=us-ascii" />
```

```
<title>W3C IPR SOFTWARE NOTICE</title>
```

```
<style type="text/css">
```

```
<!--
```

```
html, body { background: #fff; color: #000; } /* body for Windows IE3 */
```

```
-->
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>
```

```
W3C IPR SOFTWARE NOTICE
```

```
</h1>
```

```
<h3>
```

```
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```

```
</h3>
```

```
<p>
```

```
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```

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according to:

[https://bugzilla.mozilla.org/show\\_bug.cgi?id=1261445](https://bugzilla.mozilla.org/show_bug.cgi?id=1261445)

EDITING DELEGATE: webViewDidChangeSelection:WebViewDidChangeSelectionNotification

EDITING DELEGATE: webViewDidChangeSelection:WebViewDidChangeSelectionNotification

EDITING DELEGATE: webViewDidChangeSelection:WebViewDidChangeSelectionNotification

EDITING DELEGATE: webViewDidChangeSelection:WebViewDidChangeSelectionNotification

This tests the endpoints of a DOM Range object made from a selection around certain types elements. These endpoints shouldn't be at offsets inside nodes that aren't containers or text nodes.

Hello world!

Hello World!

Success

Success

Success

Success

Success

Success

Success

Success

Success

Success

Success

Success

Success

Success

Success

Success

<!-- DO NOT EDIT! Generated by `%(generating\_script\_filename)s --spec %(spec\_directory)s/` -->

81811405e2360d0019cdba9cf804776d

CONSOLE WARNING: An iframe which has both allow-scripts and allow-same-origin for its sandbox attribute can escape its sandboxing.

Tests that the <iframe sandbox> attribute influences whether notification permissions will be inherit by an iframe.

Normal iframe. Should inherit permissions.

Sandboxed iframe with allow-same-origin. Should inherit permissions.

Sandboxed iframe without allow-same-origin. Should not inherit permissions.

-----

Frame: '<!--framePath //<!--frame0-->-->'

-----

granted

-----

Frame: '<!--framePath //<!--frame1-->-->'

-----

granted

-----

Frame: '<!--framePath //<!--frame2-->-->'

-----

denied

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1be13f53cbfaa7db55b04bd53829a103

This is a testharness.js-based test.

PASS shared\_worker (withCoopCoep: false) cross origin isolated permission test

FAIL shared\_worker (withCoopCoep: true) cross origin isolated permission test assert\_equals: expected true but got false

PASS dedicated\_worker (scheme: https) cross origin isolated (undefined) permission test

PASS dedicated\_worker (scheme: https) cross origin isolated (\*) permission test

PASS dedicated\_worker (scheme: https) cross origin isolated (self) permission test

PASS dedicated\_worker (scheme: https) cross origin isolated (()) permission test

PASS dedicated\_worker (scheme: data) cross origin isolated (undefined) permission test

PASS dedicated\_worker (scheme: data) cross origin isolated (\*) permission test

PASS dedicated\_worker (scheme: data) cross origin isolated (self) permission test

PASS dedicated\_worker (scheme: blob) cross origin isolated (undefined) permission test

PASS dedicated\_worker (scheme: blob) cross origin isolated (\*) permission test

PASS dedicated\_worker

(scheme: blob) cross origin isolated (self) permission test

PASS dedicated\_worker (scheme: blob) cross origin isolated (()) permission test

PASS service\_worker (withCoopCoep: false) cross origin isolated permission test

PASS service\_worker (withCoopCoep: true) cross origin isolated permission test

Harness: the test ran to completion.

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86561eb02813e70558e8bcb669c57d27

This is a testharness.js-based test.

FAIL enumerateDevices depends only on capture state, not permission state assert\_equals: At most one of a kind prior to capture expected 3 but got 7

Harness: the test ran to completion.

This is a copy of CONTRIBUTORS file for the Pthreads-win32 library, downloaded from [http://sourceware.org/cgi-](http://sourceware.org/cgi-bin/cvsweb.cgi/~checkout~/pthreads/CONTRIBUTORS?rev=1.32&cvsroot=pthreads-win32)

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Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file. WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

-----  
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enhancements to mutexes;  
new mutex implementation in 'futex' style;  
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similar to that implemented by V.Kliathcko;  
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Vladimir Kliatchko vladimir at kliatchko dot com  
 reimplemented pthread\_once with the same form  
 as described by A.Terekhov (later version 2);  
 implementation of MCS (Mellor-Crummey/Scott) locks.

BSD-style without advertising clause  
 Test that registering a trigger using a subresource request triggers an issue when the attribution-reporting  
 Permissions Policy is disabled.

Issue reported: {  
 code : AttributionReportingIssue  
 details : {  
 attributionReportingIssueDetails : {  
 request : <object>  
 violationType : PermissionPolicyDisabled  
 }  
 }  
 }  
 }  
 <?xml version="1.0" encoding="UTF-8"?>  
 <!DOCTYPE html

```

PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"xhtml1-strict.dtd">
<html xmlns='http://www.w3.org/1999/xhtml'>
<head>
  <title>W3C IPR SOFTWARE NOTICE</title>
</head>
<body>
  <h1>
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  </h1>
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14fe18eabf460ef792731acced133573

This is a testharness.js-based test.

FAIL Query "geolocation" powerful feature assert\_equals: permission's state must be "prompt" by default expected "prompt" but got "denied"

Harness: the test ran to completion.

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Version 2, June 1991

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Test that permissions can be changed

- Set: {"name":"background-fetch"} to granted
- Set: {"name":"persistent-storage"} to prompt
- Set: {"name":"background-sync"} to denied
- Failed to set: {"name":"background-fetch"} error: Unknown permission setting: foo
- Set: {"name":"background-fetch"} to granted
- Set: {"name":"background-fetch"} to denied
- Set: {"name":"background-fetch"} to prompt
- Set: {"name":"midi","sysex":true} to granted
- Set: {"name":"midi","sysex":false} to denied
- Set: {"name":"midi","sysex":false} to prompt
- Set: {"name":"push","userVisibleOnly":true} to granted
- Set: {"name":"camera","panTiltZoom":true} to granted
- Set: {"name":"geolocation"} to granted
- Set: {"name":"geolocation"} to denied

```
[
  [0] : {"name":"background-fetch"}: granted
  [1] : {"name":"persistent-storage"}: prompt
  [2] : {"name":"background-sync"}: denied
  [3] : {"name":"background-fetch"}: granted
  [4] : {"name":"background-fetch"}: denied
  [5] : {"name":"background-fetch"}:
prompt
  [6] : {"name":"midi","sysex":true}: granted
  [7] : {"name":"midi","sysex":false}: granted
  [8] : {"name":"midi","sysex":false}: denied
  [9] : {"name":"midi","sysex":true}: denied
  [10]: {"name":"midi","sysex":false}: prompt
  [11]: {"name":"midi","sysex":true}: prompt
  [12]: {"name":"push","userVisibleOnly":true}: granted
  [13]: {"name":"camera","panTiltZoom":true}: granted
  [14]: {"name":"geolocation"}: granted
]
```

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This is a testharness.js-based test.

PASS treat-as-public-address to private: success.

PASS treat-as-public-address to local: success.

Harness: the test ran to completion.

## 1.539 json-cpp

42e892d96e47b1f6e29844cc705e148ec485644

8

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Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Source: <http://www.openbsd.org/cgi-bin/cvsweb/src/usr.bin/nc/>

Upstream-Name: netcat

Files: netcat.c

Copyright: 2001 Eric Jackson <ericj@monkey.org>

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Files: nc.1

Copyright: 1996 David Sacerdote

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Files: atomicio.\*

Copyright: 2006 Damien Miller

2005 Anil Madhavapeddy



1995,1999 Theo de Raadt  
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Files: socks.c  
Copyright: 1999 Niklas Hallqvist  
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Files: Makefile  
Copyright: The OpenBSD project  
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Files: debian/\*  
Copyright: 2008, 2009, 2010 Decklin Foster <decklin@red-bean.com>  
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Files: debian/checks/\* debian/tests/\*  
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## 1.544 nspr 4.36-r0

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```
libfreedreno_layout = static_library(  
    'freedreno_layout',  
    [  

```

```

'fd5_layout.c',
'fd6_format_table.c',
'fd6_layout.c',
'fd6_view.c',
'freedreno_layout.c',
freedreno_xml_header_files,
],
include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
c_args : [no_override_init_args],
gnu_symbol_visibility : 'hidden',
dependencies : [idep_nir_headers, idep_mesautil],
build_by_default : false,
)

foreach major : ['5', '6']
test(
'fd' + major + '_layout',
executable(
'fd' + major + '_layout',
[
'fd_layout_test.c',
'fd' + major + '_layout_test.c',
freedreno_xml_header_files,
],
link_with: libfreedreno_layout,
dependencies : idep_mesautil,
include_directories: [
inc_include,
inc_src,
inc_mapi,
inc_mesa,
inc_gallium,

inc_gallium_aux,
inc_freedreno],
),
suite : ['freedreno'],
)
endforeach

```

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Julian Seward, Cambridge, UK.

[jseward@bzip.org](mailto:jseward@bzip.org)

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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Upstream-Name: libphonenumber

Upstream-Contact: Fredrik Roubert <[roubert@google.com](mailto:roubert@google.com)>

Source: <https://github.com/google/libphonenumber/>

Files: \* `cpp/src/phonenumbers/base/logging.h`  
`cpp/src/phonenumbers/base/thread_checker.h`  
`cpp/src/phonenumbers/base/memory/singleton.h`  
`cpp/src/phonenumbers/base/memory/singleton_posix.h`  
`cpp/src/phonenumbers/base/synchronization/lock.h`  
`cpp/src/phonenumbers/base/synchronization/lock_posix.h`  
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# These people were responsible for the initial implementations in Java and  
# C++.
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Lara Rennie  
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James Wright  
-- Short number info port to Javascript.

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Philippe Liard  
-- Offline geocoder, local Maven expert.  
Cecilia Roes  
-- Carrier mapper.  
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# 1.566 ca-certificates 20241121-r1

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* C implementation based on the original Perl and shell versions
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pkgname=ca-certificates
pkgver=20241121
pkgrel=1
pkgdesc="Common CA certificates PEM files from Mozilla"
url="https://www.mozilla.org/en-US/about/governance/policies/security-group/certs/"
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"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95

<http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html>

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=alpine-base

pkgver=3.21.2

pkgrel=0

pkgdesc="Meta package for minimal alpine base"

url="https://alpinelinux.org"

arch="noarch"

license="MIT"

depends="

alpine-baselayout

alpine-conf

alpine-release

apk-tools

busybox

busybox-mdev-openrc

busybox-openrc

busybox-suid

musl-utils

openrc

"

subpackages="alpine-release:release"

replaces="alpine-baselayout"

```

options="!check"

package() {
    mkdir -p "$pkgdir"
}

release() {
    depends="alpine-keys"
    pkgdesc="Alpine release data"

    mkdir -p "$subpkgdir"/etc
    # create /etc/alpine-release
    echo $pkgver > "$subpkgdir"/etc/alpine-release
    local _ver="$(echo "$pkgver" | grep -E -o '[0-9]+\.[0-9]+)'"
    local _rel="v$_ver"
    case "$pkgver" in
        *_alpha*|*_beta*|*_pre*)
            _ver="$pkgver (edge)"
            _rel="edge"
        ;;
    esac

    # create /etc/issue
    cat >"$subpkgdir"/etc/issue<<EOF
Welcome to Alpine Linux $_ver
Kernel \r on an \m (\l)

EOF

    # create
    os-release
    mkdir -p "$subpkgdir"/usr/lib
    cat >"$subpkgdir"/usr/lib/os-release<<EOF
NAME="Alpine Linux"
ID=alpine
VERSION_ID=$pkgver
PRETTY_NAME="Alpine Linux $_rel"
HOME_URL="https://alpinelinux.org/"
BUG_REPORT_URL="https://gitlab.alpinelinux.org/alpine/aports/-/issues"
EOF
ln -s ../usr/lib/os-release "$subpkgdir"/etc/os-release

    # create secfixes.d repository list
    mkdir -p "$subpkgdir"/etc/secfixes.d
    cat >"$subpkgdir"/etc/secfixes.d/alpine<<EOF
https://secdb.alpinelinux.org/$_rel/main.json
https://secdb.alpinelinux.org/$_rel/community.json
EOF

```

}

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# This file contains a list of people who've made non-trivial  
# contribution to the Google C++ Testing Framework project. People  
# who commit code to the project are encouraged to add their names  
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42.533,1.467]],"v":[[34,62],[61.2,300.267],[346.667,280.267],[322,66]],"c":true}},"e":{"i":[[56,0],[-4,-50],[-56,22],[2,36]],"o":[[10,22],[42,6],[0,-80],[-58,2]],"v":[[34,62],[66,344],[352,332],[322,66]],"c":true}},"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833\_0p833\_0p167\_0p167","t":225,"s":{"i":[[56,0],[-4,-50],[-56,22],[2,36]],"o":[[10,22],[42,6],[0,-80],[-58,2]],"v":[[34,62],[66,344],[352,332],[322,66]],"c":true}},"e":{"i":[[41.067,0],[-5.067,-37.733],[-46.933,26.267],[1.467,26.4]],"o":[[7.333,16.133],[32.933,5.467],[-3.733,-71.467],[-42.533,1.467]],"v":[[34,62],[61.2,300.267],[346.667,280.267],[322,66]],"c":true}},"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833\_0p833\_0p167\_0p167","t":240,"s":{"i":[[41.067,0],[-5.067,-37.733],[-46.933,26.267],[1.467,26.4]],"o":[[7.333,16.133],[32.933,5.467],[-3.733,-71.467],[-42.533,1.467]],"v":[[34,62],[61.2,300.267],[346.667,280.267],[322,66]],"c":true}},"e":{"i":[[56,0],[-4,-50],[-56,22],[2,36]],"o":[[10,22],[42,6],[0,-80],[-58,2]],"v":[[34,62],[66,344],[352,332],[322,66]],"c":true}},"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833\_0p833\_0p167\_0p167","t":255,"s":{"i":[[56,0],[-4,-50],[-56,22],[2,36]],"o":[[10,22],[42,6],[0,-80],[-58,2]],"v":[[34,62],[66,344],[352,332],[322,66]],"c":true}},"e":{"i":[[41.067,0],[-5.067,-37.733],[-46.933,26.267],[1.467,26.4]],"o":[[7.333,16.133],[32.933,5.467],[-3.733,-71.467],[-42.533,1.467]],"v":[[34,62],[61.2,300.267],[346.667,280.267],[322,66]],"c":true}},"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833\_0p833\_0p167\_0p167","t":270,"s":{"i":[[41.067,0],[-5.067,-37.733],[-46.933,26.267],[1.467,26.4]],"o":[[7.333,16.133],[32.933,5.467],[-3.733,-71.467],[-42.533,1.467]],"v":[[34,62],[61.2,300.267],[346.667,280.267],[322,66]],"c":true}},"e":{"i":[[56,0],[-4,-50],[-56,22],[2,36]],"o":[[10,22],[42,6],[0,-80],[-58,2]],"v":[[34,62],[66,344],[352,332],[322,66]],"c":true}},"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833\_0p833\_0p167\_0p167","t":285,"s":{"i":[[56,0],[-4,-50],[-56,22],[2,36]],"o":[[10,22],[42,6],[0,-80],[-58,2]],"v":[[34,62],[66,344],[352,332],[322,66]],"c":true}},"e":{"i":[[41.067,0],[-5.067,-37.733],[-46.933,26.267],[1.467,26.4]],"o":[[7.333,16.133],[32.933,5.467],[-3.733,-71.467],[-42.533,1.467]],"v":[[34,62],[61.2,300.267],[346.667,280.267],[322,66]],"c":true}},"t":300},"o":{"k":100},"x":{"k":0},"nm":"Mask 1"},"w":400,"h":400,"ip":0,"op":300,"st":0,"bm":0,"sr":1},{ "ddd":0,"ind":2,"ty":4,"nm":"Shape Layer 2","parent":8,"ks":{"o":{"k":100},"r":{"k":0},"p":{"k":[396,431,0]},{"a":{"k":[0,0,0]},{"s":{"k":[100,100,100]}},"ao":0,"shapes":{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[[4,7],[-2.25,0.75],[0,0]],"o":[[3.25,8],[2.25,-0.75],[0,0]],"v":[[248.5,27.25],[240,53.25],[258.5,50.75]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},"ty":"fl","fillEnabled":true,"c":{"k":[0.9,0.89,0.87,1]},{"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},"ty":"tr","p":{"k":[0,0],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Shape 1","np":3,"mn":"ADBE Vector Group"},"ip":0,"op":300,"st":0,"bm":0,"sr":1},{ "ddd":0,"ind":3,"ty":4,"nm":"C.I.A. Outlines","cl":"I A ","parent":8,"ks":{"o":{"k":100},"r":{"k":0},"p":{"k":[452,517,0]},{"a":{"k":[0,0,0]},{"s":{"k":[100,100,100]}},"ao":0,"shapes":{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[[1.112,3.057],[6.949,-1.76],[6.022,-3.057],[-0.927,20.847],[-21.773,-4.725],[-1.76,2.409],[4.169,12.045],[2.872,-4.169],[2.224,-28.351],[-17.418,-2.131],[-4.818,1.112]],"o":[[2.502,-7.227],[-4.169,1.019],[-12.601,6.486],[0.834,-17.604],[0.371,8.153],[5.374,-7.134],[-0.556,-1.76],[-19.92,-6.764],[-2.038,26.406],[5.837,0.649],[6.393,-1.39]],"v":[[62.076,-3.799],[58.092,-17.882],[48.457,-5.559],[22.236,-35.763],[51.422,-65.597],[59.39,-52.904],[61.521,-74.955],[53.182,-72.268],[2.224,-39.192],[35.022,0.741],[51.329,-0.093]],"c":true}},"nm":"C","mn":"ADBE Vector Shape - Group"},"ty":"fl","fillEnabled":true,"c":{"k":[0.31,0.41,0.61,1]},{"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},"ty":"tr","p":{"k":[0,0],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"C","np":3,"mn":"ADBE Vector Group"},"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[[0.093,2.78],[2.502,1.297],[3.428,-1.39],[-0.463,-

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Mesa 3-D graphics library

Version: 7.0

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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

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| Release | Derived | Year | Owner | GPL- |
|---------|---------|------|-------|------|
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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             |  |
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| 2.1.3          | 2.1.2     | 2002 PSF        | yes             |  |
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## 1.576 x-crypto v0.23.0

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test

Comment:

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# 1.578 bind 9.18.30-0ubuntu0.22.04.2

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## 1.580 kerberos 1.19.2-2ubuntu0.5

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cmd/krb5/kadmin/server/ipropd\_svc.c  
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cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
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lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
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
- lib/gssapi/mechglue/g\_store\_cred.c
- lib/gssapi/mechglue/g\_unseal.c
- lib/gssapi/mechglue/g\_userok.c
- 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/iproper\_hdr.h  
kadmin/server/iproperd\_svc.c  
lib/kdb/iproper.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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# 1.584 errors 0.9.1

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# 1.585 nss 3.106-r0

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# Automatically generated by apkbuid-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
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pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"
```

```
builddir="$srcdir/$_pkgreal-$pkgver"
```

```
prepare() {
    default_prepare
```

```
    cd "$builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}
```

```
build() {
    cd "$builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make
}
```

```
check() {
    cd "$builddir"
    make test
}
```

```
package() {
```

```
cd "$builddir"
make DESTDIR="$pkgdir" install
find
"$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}
```

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16  
dfa5417f663b8065ba65f4fea16dc9262728b3b6b85 BSD-Resource-1.2911.tar.gz"

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=libart-lgpl

pkgver=2.3.21

pkgrel=5

pkgdesc="A library for high-performance 2D graphics"

url="http://www.levien.com/libart/"

arch="all"

options="!check" # No test suite.

license="LGPL-2.0+"

depends=

makedepends=

subpackages="\$pkgname-dev"

source="https://download.gnome.org/sources/libart\_lgpl/2.3/libart\_lgpl-\$pkgver.tar.bz2"

"

builddir="\$srcdir"/libart\_lgpl-\$pkgver

```
prepare() {  
  cd "$builddir"  
  update_config_sub  
  default_prepare  
}
```

```
build() {  
  cd "$builddir"  
  ./configure \  
  --build=$CBUILD \  
  --host=$CHOST \  
  --prefix=/usr  
  make  
}
```

```
package() {  
  cd "$builddir"  
  make DESTDIR="$pkgdir" install  
}
```

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e76654309e001aee9bace727b5b4c8589405256a3c020 libart\_lgpl-2.3.21.tar.bz2"

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basecv.t.pod  
gcd.pod  
invmod.pod  
isprime.pod  
lap.pod  
mpi-test.pod  
prime.txt  
prng.pod  
# This file contains a list of people who've made non-trivial  
# contribution to the Google C++ Testing Framework project. People  
# who commit code to the project are encouraged to add their names  
# here. Please keep the list sorted by first names.

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## 1.586 sentry-go 0.10.0

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## 1.587 browserbot 3.6.0

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