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### 1.6 msgpack 0.6.2

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1.8 ssh-import-id 5.10
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---
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 7.24, 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://rt.cpan.org/Dist/Display.html?Queue=IO-Socket-SSL
  homepage: https://github.com/noxxi/p5-io-socket-ssl
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  repository: https://github.com/noxxi/p5-io-socket-ssl
  version: '2.067'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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* /opt/cola/permits/1146929071_1616836857.87/0/libio-socket-ssl-perl-2-067-orig-tar-gz/IO-Socket-SSL-2.067/META.yml

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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 $cl "GET / HTTP/1.0\n\n";
print <$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">
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:

- **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.

- **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.

Identification is the part which is the hardest to understand and the easiest
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:

=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.

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.

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.

A basic SSL client is simple:

```perl
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:

```perl
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,
      SSL_hostname => 'mx.example.com'
    ) or die $SSL_ERROR;
```

A more complete example for a simple HTTP client:

```perl
my $client = IO::Socket::SSL->new(
   PeerHost => "www.example.com",
   PeerPort => "https",
   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
```

Open Source Used In Cisco Modeling Labs 2.4 132
# It will use PeerHost as default name a verification scheme as default, which is safe enough for most purposes.
SSL_verifycn_name => 'foo.bar',
SSL_verifycn_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::SSLeay> 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)
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_verifycn_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 send 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 cannot 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:
0 - No debugging (default).

1 - Print out errors from L<IO::Socket::SSL> and ciphers from L<Net::SSLeay>.

2 - Print also information about call flow from L<IO::Socket::SSL> and progress information from L<Net::SSLeay>.

3 - Print also some data dumps from L<IO::Socket::SSL> and from L<Net::SSLeay>.

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:

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>.

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 \texttt{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.

\begin{itemize}
\item Bad or old OpenSSL versions.
\end{itemize}

\texttt{IO::Socket::SSL} uses OpenSSL with the help of the \texttt{Net::SSLeay} library. It is recommend to have a recent version of this library, because it has more features and usually fewer known bugs.

\begin{itemize}
\item Validation of client certificates fail.
\end{itemize}

Make sure that the purpose of the certificate allows use as ssl client (check with \texttt{openssl x509 -purpose}}, that the necessary root certificate is in the path specified by \texttt{SSL\_ca*} (or the default path) and that any intermediate certificates needed to build the trust chain are sent by the client.

\begin{itemize}
\item Validation of self-signed certificate fails even if it is given with \texttt{SSL\_ca*} argument.
\end{itemize}

The \texttt{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.
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
      # goto $sel->can_read
      next;
    }
  }

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 \texttt{IO::Socket::SSL}.
With a supported version, SNI is used automatically on the client side, if it
 can determine the hostname from \texttt{PeerAddr} or \texttt{PeerHost} (which are synonyms
in the underlying \texttt{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 \texttt{SSL_hostname}, but in
this case it will throw in error, if SNI is not supported.
To check for support you might call \texttt{IO::Socket::SSL->can_client_sni()}.

On the server side, earlier versions of OpenSSL are supported, but only together
with \texttt{Net::SSLeay} version \texttt{>= 1.50}.
To check for support you might call \texttt{IO::Socket::SSL->can_server_sni()}.
If server side SNI is supported, you might specify different certificates per
host with \texttt{SSL_cert*} and \texttt{SSL_key*}, and check the requested name using
\texttt{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 \texttt{start_SSL}
to upgrade and stop_SSL to downgrade:

```perl
my $sock = IO::Socket::INET->new(...) or die $!
...
my $sock = IO::Socket::SSL->new(...)
...
my $sock = IO::Socket::INET->new(...)
...
```

But, lots of modules just derive directly from \texttt{IO::Socket::INET}.
While this base class can be replaced with \texttt{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, \texttt{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
\texttt{stop_SSL} to talk plain again:

```perl
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 certificate(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::SSLeay> or L<IO::Socket::SSL::Util::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::SSLeay> 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::SSLeay> 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'. Look into 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. The default setting
prefers ciphers with forward secrecy, disables anonymous authentication and
disables known insecure ciphers like MD5, DES etc. This gives a grade A result
at the tests of SSL Labs.
To use the less secure OpenSSL builtin default (whatever this is) set
SSL_cipher_list to ".

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
a string containing any errors encountered (0 if no errors).

a C-style memory address of the peer's own certificate (convertible to PEM form with Net::SSLeay::PEM_get_string_X509()).

The depth of the certificate in the chain. Depth 0 is the leaf certificate.

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.

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.

This option is used to specify the behavior when checking wildcards 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 sent 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

=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

C<< 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.
Overrules 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::SSLeay 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::SSLeay/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::SSLeay 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::SSLeay/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,[ Kı$key_name]) >> where C<$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 \texttt{C<$key_name>\textgreater} as found in the ticket. It should return \texttt{C<($key,$current_key_name)>} where \texttt{C<$key>\textgreater} is the key associated with the given \texttt{C<$key_name>\textgreater} and \texttt{C<$current_key_name>\textgreater} the name associated with the currently active key. If \texttt{C<$current_key_name>\textgreater} is different from the given \texttt{C<$key_name>\textgreater} 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 \texttt{C<$key_name>\textgreater} 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:

\begin{verbatim}
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 $mykeys->[0][0];
        return ($mykeys->[0][1],$mykeys->[0][0]);
    }

    # no matching key found
    return;
},
    @keys ];

my $srv = IO::Socket::SSL->new(..., SSL_ticket_keycb => $keycb);
\end{verbatim}
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).

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.

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.

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. Pease 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 method 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 method 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::SSLeay.

=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::SSLeay 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:

- `authority` (alias issuer)
  The certificate authority which signed the certificate.

- `owner` (alias subject)
  The owner of the certificate.

- `commonName` (alias cn) - only for Net::SSLeay version >=1.30
  The common name, usually the server name for SSL certificates.

- `subjectAltNames` - only for Net::SSLeay 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::SSLeay::X509_get_subjectAltNames.

- `sock_certificate($field)`
  This is similar to C<peer_certificate> but will return the sites own certificate. The same arguments for B<$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.

- `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 their 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 is 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'\n
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'\n
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'\n
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<setDefaults>, 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>. 

---

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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:

- truncate
- stat
- ungetc
- setbuf
- setvbuf
- fdopen
- send/recv

Note that send() and recv() 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.

DEPRECATIONS

The following functions are deprecated and are only retained for compatibility:

- context_init()
  use the SSL_reuse_ctx option if you want to re-use a context

- socketToSSL() and socket_to_SSL()
  use IO::Socket::SSL->start_SSL() instead

- kill_socket()
  use close() instead

- 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.

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Marko Asplund, <marko.asplund at kronodoc.fi>, was the original author of IO::Socket::SSL.

Patches incorporated from various people, see file Changes.

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1.26 lmdb 0.9.24-1

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1.28 fonts-ubuntu 0.83-4ubuntu1

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Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the [1]Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of [2]Canonical and [3]Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the [4]network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not
to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners' experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):

* [5]SIL International
* [6]Open Font Library
* [7]Software Freedom Law Center
* [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of
the GPL as well. To avoid this, Bison is published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:
* [10]SIL Open Font Licence: When OFL fonts are embedded in a document, the OFL’s terms do not apply to that document. (See [11]OFL-FAQ for details.)
* [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.
* [13]Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.
* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font
Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interim. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:
8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

13. https://launchpad.net/~uff-contributors

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1.29 opus 1.3.1-0ubuntu1

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1.30 libvirt-daemon-system-systemd 6.0.0-0ubuntu8.16

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1.43 debianutils 4.9.1

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1.44 glib 2.64.6-1~ubuntu20.04.4

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@end enumerate

@end iftex
@end ifinfo
@end page
@heading Appendix: How to Apply These Terms to Your New Programs

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```
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```

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```
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1.56 accounts-service 0.6.55-0ubuntu12~20.04.5

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

"Types used by cobra, used by mypy

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"

from typing import Any, Dict

JsonDict = Dict[str, Any]
YamlDict = Dict[str, Any]

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/cobra_types.py
import json

def computeEventTimeDeltas(events: str) -> list:
    lines = events.splitlines()
    N = len(lines)
    assert N > 0, 'event list should not be empty'

    events = [json.loads(line) for line in lines]
    deltas = []
    for i in range(1, N):
        previousTs = events[i - 1]['timestamp']
        currentTs = events[i]['timestamp']
        delta = currentTs - previousTs
        deltas.append(((lines[i - 1], delta))
    deltas.append((lines[N-1], 0))
    return deltas

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1-tar-gz/cobras-1.2.1/cobras/client/publish.py
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"Utility for batch publishing.

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FIXME: Should be renamed
""

import asyncio

""Publish jobs gets enqueued into a multi-publisher, which publish them
to redis in a batch fashion, using a pipeline.

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https://redis.io/topics/pipelining
Weird leaks https://bugs.python.org/issue31620
""
class PipelinedPublisher():
    def __init__(self, redis, batchSize=None):
        self.redis = redis
        self.queue = asyncio.Queue()
        self.batchSize = batchSize or 100
        self.lock = asyncio.Lock()
        self.xaddMaxLength = 1000

    async def publishAll(self):
        pipe = self.redis.pipeline()
        async with self.lock:
            while True:
                try:
                    job = self.queue.get_nowait()
                except asyncio.QueueEmpty:
                    break
                else:
                    self.publish(pipe, job)
                    self.queue.task_done()

                await pipe.execute()

    def enqueue(self, job):
        self.queue.put_nowait(job)

    def publish(self, pipe, job):
        appkey, channel, data = job
        appChannel = '{}::{}'.format(appkey, channel)
        pipe.xadd(appChannel, {'json': data},
                  max_len=self.xaddMaxLength, exact_len=False)

    async def publishNow(self, job):
        async with self.lock:
            pipe = self.redis.pipeline()
            self.publish(pipe, job)
            await pipe.execute()

    async def push(self, job, batchPublish=False):
        if not batchPublish:
            await self.publishNow(job)
            return
        self.enqueue(job)
        if self.queue.qsize() >= self.batchSize:
            await self.publishAll()
Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/pipelined_publisher.py
No license file was found, but licenses were detected in source scan.

"Cobra main driver.
Calls into sub commands like git.

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...

from pkgutil import walk_packages

import click
import coloredlogs

coloredlogs.install(level='WARNING')

@click.group()
@click.version_option()
def main():
    
    __b
    /
    \
    /\_\_\_\_\_\_\_\_
    /_/ /
    /_/ /
    __/\_\_\_\_\_\_

    Cobra is a realtime messaging server using Python3, WebSockets and Redis.
    
    for loader, module_name, is_pkg in walk_packages(__path__, __name__ + '.'):
        module = __import__(__name__, locals(), ['__name__'])
        cmd = getattr(module, module_name.rsplit('.', 1)[-1])
        if isinstance(cmd, click.Command):
            main.add_command(cmd)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/__init__.py
No license file was found, but licenses were detected in source scan.

""Tools used when running as superuser (which we should almost never do)

Copyright (c) 2018-2019 Machine Zone, Inc. All rights reserved.
...
import os
import sys
import click

def preventRootUsage():
    """ Make sure a root user cannot run this command"

    if os.geteuid() == 0:
        msg = 'Cobra cannot be run as root / sudo. Exiting'
        click.secho(msg, fg='red')
        sys.exit(1)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/superuser.py
No license file was found, but licenses were detected in source scan.

"""Setup cobra

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""
import click

from cobras.common.apps_config import AppConfig, getDefaultAppsConfigPath
from cobras.common.superuser import preventRootUsage

@click.command()
def init():
    """Setup cobra"

    preventRootUsage()

    path = getDefaultAppsConfigPath()
    appsConfig = AppConfig(path)
    appsConfig.generateDefaultConfig()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/init.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: cobras
Version: 1.2.1
Summary: A realtime messaging server using WebSockets and Redis.
Home-page: https://github.com/machinezone/cobra
Cobra is a realtime messaging server using Python3, WebSockets and Redis PubSub. It was presented in great details during [RedisConf 2019](https://events.redislabs.com/redis-conf/redis-conf-2019/).

* [slides](https://bsergean.github.io/redis_conf_2019/slides.html)
* [youtube](https://www.youtube.com/watch?v=o8CC8qYfRQE&t=147s)

Cobra has been used in production receiving heavy traffic for about a year. Since it was written in Python it was named after a snake as an homage to a great programming language.

# News

Cobra is actively being developed, check out the [changelog](CHANGELOG.md) to know what's cooking.

# Installation

## With pip

```bash
pip install cobras
```

## With docker

```bash
docker pull bsergean/cobra
```

## For development

```bash

git clone <url>
cd cobra
python3 -m venv venv
source venv/bin/activate
make dev
make test
```

# Usage

```bash
$ cobra
```

Usage: cobra [OPTIONS] COMMAND [ARGS]...
Cobra is a realtime messaging server using Python3, WebSockets and Redis PubSub.

Options:
--version Show the version and exit.
--help Show this message and exit.

Commands:
admin Run admin commands.
health Health check
init Setup cobra
monitor Monitor cobra
publish Publish to a channel
run Run the cobra server
redis_subscribe Subscribe to a channel (with redis)
subscribe Subscribe to a channel
secret Generate secrets used for authentication...

To run the server use `cobra run`. You can run a health-check against the server with `cobra health`.

cobra health --url 'ws://jeanserge.com/v2?appkey=_health' --secret A5a3BdE1bc6Df5AAFFcadE7F9Dd7F17E -role health

# Setup

To run in production you will need a redis (version > 5) instance. Here are environment variables that you will likely want to tweak, to connect to 2 redis instances (for scalability), and to bind on 0.0.0.0 so that the internet can see your instance.

- name: COBRA_HOST
  value: 0.0.0.0
- name: COBRA_REDIS_URLS
  value: redis://redis1;redis://redis2

# Thank you

There would be no cobra without some other amazing open-source projects and tech. Here are 3 very remarkable ones.

- [Python](https://www.python.org/) (and [asyncio](https://realpython.com/async-io-python/), one of the killer python3 feature !)
- [Redis](https://redis.io/), the swiss army knife of the internet which provide a very scalable publish/subscribe
feature to dispatch messages while retaining them and allowing lookups of old messages (see [Redis Streams]
(https://redis.io/topics/streams-intro).


Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.7
Description-Content-Type: text/markdown
Provides-Extra: dev
Provides-Extra: tests

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/PKG-INFO
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras.egg-info/PKG-INFO
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Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/app.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/redis_subscriber.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/stream_sql.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/client/health_check.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/client/monitor.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/algorithm.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/client/client.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/redis_connections.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/memory_debugger.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/read.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/apps_config.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/pipelined_publishers.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/protocol.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/stats.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/auth_hash.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/publish.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/task_cleanup.py
import os

from cobras.common.apps_config import AppConfig, getDefaultAppsConfigPath

def createCredentials(role, secret):
    return {'role': role, 'secret': secret}

def getDefaultRoleForApp(app) -> str:
    path = os.getenv('COBRA_APPS_CONFIG', getDefaultAppsConfigPath())
    appsConfig = AppConfig(path)
    return appsConfig.getDefaultRoleForApp(app)

def getDefaultSecretForApp(app) -> str:
    path = os.getenv('COBRA_APPS_CONFIG', getDefaultAppsConfigPath())
    appsConfig = AppConfig(path)
    return appsConfig.getDefaultSecretForApp(app)

class MessageHandlerClass(RedisSubscriberMessageHandlerClass):
    def __init__(self, obj):
        super().__init__(obj)
self.cnt = 0
self.cntPerSec = 0
self.throttle = Throttle(seconds=1)

def log(self, msg):
    print(msg)

async def on_init(self, redisConnection):
    pass

async def handleMsg(self, msg: str, position: str,
    payloadSize: int) -> bool:
    self.cnt += 1
    self.cntPerSec += 1

    if self.throttle.exceedRate():
        return True

    print(f"#messages {self.cnt} msg/s {self.cntPerSec}")
    self.cntPerSec = 0

    return True

@click.command()
@click.option('--redis_urls', default='redis://localhost')
@click.option('--redis_password')
@click.option('--channel')
@click.option('--appkey')
def redis_subscribe(redis_urls, redis_password, channel, position, appkey):
    '''Subscribe to a channel
    
    cobra subscribe --redis_urls redis://localhost:7379 --channel foo --appkey bar  # noqa
    
    cobra subscribe --redis_urls redis://redis:6379 --channel foo --appkey bar
    [From a bench container]
    
    cobra subscribe --redis_urls `redis://localhost:7001;redis://localhost:7002` --channel foo --appkey bar  # noqa
    
    preventRootUsage()
    uvloop.install()

    appChannel = '{}:{}'\n'.format(appkey, channel)
redisConnections = RedisConnections(redis_urls, redis_password)
runSubscriber(redisConnections, appChannel, position, MessageHandlerClass)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/redis_subscribe.py
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/bavarde/runner/client.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/redis_kv_store.py
No license file was found, but licenses were detected in source scan.

"""Monitor cobra

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"""

import click
import uvloop

from cobras.client.credentials import (createCredentials, getDefaultRoleForApp, getDefaultSecretForApp)
from cobras.client.monitor import runMonitor
from cobras.common.apps_config import STATS_APPKEY
from cobras.common.superuser import preventRootUsage

DEFAULT_URL = 'ws://127.0.0.1:8765/v2?appkey={STATS_APPKEY}'

@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('stats'))
@click.option('--secret', default=getDefaultSecretForApp('stats'))
@click.option('--raw', is_flag=True)
@click.option('--hide_nodes', is_flag=True)
@click.option('--hide_roles', is_flag=True)
@click.option('--subscribers', is_flag=True)
@click.option('--role_filter')
@click.option('--system', is_flag=True)
def monitor(url, role, secret, raw, role_filter, hide_nodes, hide_roles, subscribers, system):
    """Monitor cobra
    """

    preventRootUsage()
    uvloop.install()
credentials = createCredentials(role, secret)
runMonitor(url, credentials, raw, role_filter,
    not hide_nodes, not hide_roles, subscribers, system)

Found in path(s):  
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/monitor.py
No license file was found, but licenses were detected in source scan.

""Subscribe to a channel

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"

import asyncio
import json

import click
import uvloop

from cobras.client.client import subscribeClient
from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
                                        getDefaultSecretForApp)
from cobras.common.apps_config import PUBSUB_APPKEY
from cobras.common.superuser import preventRootUsage
from cobras.common.throttle import Throttle

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={PUBSUB_APPKEY}'

class MessageHandlerClass:
    def __init__(self, websockets, args):
        self.cnt = 0
        self.cntPerSec = 0
        self.throttle = Throttle(seconds=1)
        self.verbose = args['verbose']

    async def on_init(self):
        pass

    async def handleMsg(self, msg: str) -> bool:
        self.cnt += 1
        self.cntPerSec += 1

        if self.verbose >= 1:
            data = json.loads(msg)
            body = data['body']
            message = body['messages'][0]
position = body['position']
print(f'{message} at position {position}')

if self.throttle.exceedRate():
    return True

print(f'#messages {self.cnt} msg/s {self.cntPerSec}''
self.cntPerSec = 0

return True

@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('pubsub'))
@click.option('--secret', default=getDefaultSecretForApp('pubsub'))
@click.option('--channel', default='sms_republished_v1_neo')
@click.option('--position')
@click.option('--verbose', '-v', count=True)
@click.option('--stream_sql')
def subscribe(url, role, secret, channel, position, stream_sql, verbose):
    '''Subscribe to a channel
    '''
    preventRootUsage()
    uvloop.install()

    credentials = createCredentials(role, secret)

    asyncio.get_event_loop().run_until_complete(
        subscribeClient(url, credentials, channel, position,
        stream_sql, MessageHandlerClass,
        {'verbose': verbose}))

    Found in path(s):
    * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/subscribe.py
No license file was found, but licenses were detected in source scan.

    '''Small class to record data attached to a connection

    FIXME: use this to enforce publish+subscribe permissions.

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    '''

    import uuid
class ConnectionState:
    def __init__(self, appkey):
        self.appkey = appkey

        self.connection_id = uuid.uuid4().hex[:8]
        self.subscriptions = {}
        self.ok = True
        self.role = 'na'
        self.authenticated = False
        self.permissions = []

        self.nonce = None
        self.error = 'na'

        self.path = f'/tmp/log_{self.connection_id}'}
        self.fileLogging = False

    def log(self, msg):
        log = f'[{self.connection_id}::{self.role}] {msg}'
        if self.fileLogging:
            print(log)
            with open(self.path, 'a') as f:
                f.write(log + 'n')

import pkg_resources
from cobras.common.memoize import memoize

def getVersion():
    """Get our own version using pkg_resources""

    return pkg_resources.get_distribution("cobras").version

if __name__ == '__main__':
    print(getVersion())
import os
import psutil
from cobras.common.memoize import memoize

@memoize
def getContainerMemoryLimit():
    """In bytes"
    
    path = '/sys/fs/cgroup/memory/memory.limit_in_bytes'
    if not os.path.exists(path):
        return psutil.virtual_memory().total
    else:
        with open(path) as f:
            mem = f.read()
        return int(mem)

def getProcessUsedMemory():
    p = psutil.Process()
    return p.memory_info().rss

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/memory_usage.py

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

"""Memoization decorator for functions taking one or more arguments.

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"""

def memoize(f):
    """"""Memoization decorator for functions taking one or more arguments."""

class Memodict(dict):
    """Helper class derived from dict"""
def __init__(self, f):
    """Constructor"

dict.__init__(self)
self.f = f

def __call__(self, *args):
    """Call function"

    return self[args]

def __missing__(self, key):
    """Missing method"

    ret = self[key] = self.f(*key)
    return ret

return Memodict(f)

Found in path(s):
  * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar-gz/cobras-1.2.1/cobras/common/memoize.py
No license file was found, but licenses were detected in source scan.

"""Generate secrets used for authentication

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"

import click

from cobras.common.apps_config import genSecret
from cobras.common.superuser import preventRootUsage

@click.command()
def secret():
    """Generate secrets used for authentication

    cobra secret
    ""
    preventRootUsage()
    secret = genSecret()
    print(secret)
def djb2Hash(data):
    """Return a 32 bits digest""

    hash = 5381
    for x in data:
        hash = ((hash << 5) + hash) + ord(x)
    return hash & 0xFFFFFFFF

from pkgutil import walk_packages
import click
import coloredlogs
coloredlogs.install(level='WARNING')

@click.group()
@click.version_option()
def main():
    ""
Bavarde is a chat app written on top of cobra
""
if isinstance(cmd, click.Command):
    main.add_command(cmd)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/bavarde/runner/__init__.py
No license file was found, but licenses were detected in source scan.

"Module used for python packaging

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from __future__ import absolute_import
import platform
import os
import sys
from setuptools import find_packages, setup

if sys.version_info[:2] < (3, 7):
    print('Error: Cobra requires Python 3.7')
    sys.exit(1)

ROOT = os.path.realpath(os.path.join(os.path.dirname(__file__)))

with open(os.path.join(ROOT, 'DOCKER_VERSION')) as f:
    VERSION = f.read().strip()

dev_requires = [
    'flake8',
    'isort',
    'honcho',
    'mypy',
    'aiojobs==0.1.0',
    'twine'
]

tests_require = [
    'pytest',
    'pytest-cov',
    'pytest-xdist',
    'coverage'
]

with open('requirements.txt') as f:
    install_requires = f.read().splitlines()
setup(
    name='cobras',
    version=VERSION,
    author='Benjamin Sergeant',
    author_email='bsergean@gmail.com',
    url='https://github.com/machinezone/cobra',
    description='A realtime messaging server using WebSockets and Redis.',
    long_description=open(os.path.join(ROOT, 'README.md')).read(),
    long_description_content_type='text/markdown',
    packages=find_packages(exclude=['tests']),
    zip_safe=False,
    install_requires=install_requires,
    extras_require={
        'tests': tests_require,
        'dev': dev_requires
    },
    license='BSD 3',
    include_package_data=True,
    entry_points={
        'console_scripts': [
            'cobra = cobras.runner:main',
            'bavarde = cobras.bavarde.runner:main'
        ],
    },
    classifiers=[
        'Development Status :: 5 - Production/Stable',
        'Environment :: Web Environment',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.7',
    ],
)

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

""Publish to a channel

Copyright (c) 2018-2019 Machine Zone, Inc. All rights reserved.

import asyncio
import functools
import json
import click
import uvloop

from cobras.client.client import client
from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
               getDefaultSecretForApp)
from cobras.common.apps_config import ADMIN_APPKEY
from cobras.common.superuser import preventRootUsage

DEFAULT_URL = 'ws://127.0.0.1:8765/v2?appkey={ADMIN_APPKEY}"

async def clientCallback(websocket, **args):
    method = args['method']
    params = args.get('params')
    params = json.loads(params)

    pdu = {
        "action": "rpc/admin",
        "id": 1,
        "body": {
            "method": method,
            "params": params
        }
    }

    await websocket.send(json.dumps(pdu))

    response = await websocket.recv()
    print(response)

async def start(url, credentials, verbose, method, params):
    callback = functools.partial(clientCallback,
                                  verbose=verbose,
                                  method=method,
                                  params=params)

    task = asyncio.create_task(
                               client(url, credentials, callback))
    await task

@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('admin'))
@click.option('--secret', default=getDefaultSecretForApp('admin'))
@click.option('--verbose', is_flag=True)
@click.option('--method', default='close_all')
@click.option('--params', default='{}')
def admin(url, role, secret, verbose, method, params):
    '''Admin

    cobra admin --method toggle_file_logging --params '{"connection_id": ":.."}'
    '''

    preventRootUsage()
    uvloop.install()

    credentials = createCredentials(role, secret)

    asyncio.get_event_loop().run_until_complete(start(url, credentials, verbose, method, params))

    Found in path(s):
    * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/admin.py
    No license file was found, but licenses were detected in source scan.

    ''Class to used to throttle function calls, so that something isn't called too often

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    '''

    from datetime import datetime, timedelta

class Throttle(object):
    def __init__(self, 
        seconds: int = 1, 
        minutes: int = 0, 
        hours: int = 0) -> None:
        self.throttle_period = timedelta( 
            seconds=seconds, minutes=minutes, hours=hours 
        )
        self.time_of_last_call = datetime.min

    def exceedRate(self) -> bool:
        now = datetime.now()
        time_since_last_call = now - self.time_of_last_call

        if time_since_last_call > self.throttle_period:
            self.time_of_last_call = now
            return False
else:
    return True

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/throttle.py
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"Bot

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... 

import click

from cobras.bavarde.bot.bot import runBot

@click.command()

def bot():
    """Bot
    """

    runBot()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/bavarde/runner/bot.py
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"""Health check.

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Subscribe to a channel, publish and make sure a message is received
...

import sys
import urllib.request

import click
import uvloop

from cobras.client.credentials import (getDefaultRoleForApp,
    getDefaultSecretForApp)
from cobras.client.health_check import (getDefaultHealthCheckChannel,
    getDefaultHealthCheckHttpUrl,
    getDefaultHealthCheckUrl, healthCheck)
from cobras.common.superuser import preventRootUsage
```python
@click.option('--url', default=getDefaultHealthCheckUrl())
@click.option('--http_url', default=getDefaultHealthCheckHttpUrl)
@click.option('--http', is_flag=True)
@click.option('--role', default=getDefaultRoleForApp('health'))
@click.option('--secret', default=getDefaultSecretForApp('health'))
@click.option('--channel', default=getDefaultHealthCheckChannel())
@click.command()
def health(url, http_url, http, role, secret, channel):
    """Health check
    ""
    cobra health --http
    ""
    cobra health --http --http_url 'http://127.0.0.1:8765/health/
    ""
    ""
    preventRootUsage()
    uvloop.install()
    if http:
        print('url:', http_url)
        with urllib.request.urlopen(http_url) as response:
            html = response.read()
            print(html.decode('utf8'), end="")
    else:
        try:
            healthCheck(url, role, secret, channel)
        except ValueError as e:
            click.secho(f'System is unhealthy !!: {e}', fg='red')
            sys.exit(1)

    click.secho('System is healthy', fg='green')

    Found in path(s):
    * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/health.py
    No license file was found, but licenses were detected in source scan.

    """Run the cobra frontend
    ""
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    ""
    import os
    import click
    import sentry_sdk
    import uvloop
```
from cobras.common.apps_config import getDefaultAppsConfigPath
from cobras.common.superuser import preventRootUsage
from cobras.server.app import AppRunner

@click.command()
@click.option('--host', envvar='COBRA_HOST', default='127.0.0.1',
    help='Binding host address. Set to 0.0.0.0 in prod environments')
@click.option('--port', envvar='COBRA_PORT', default='8765')
@click.option('--redis_urls', envvar='COBRA_REDIS_URLS',
    default='redis://localhost;redis://localhost')
@click.option('--redis_password', envvar='COBRA_REDIS_PASSWORD')
@click.option('--apps_config_path', envvar='COBRA_APPS_CONFIG',
    default=getDefaultAppsConfigPath())
@click.option('--verbose', envvar='COBRA_VERBOSE', is_flag=True)
@click.option('--prod', envvar='COBRA_PROD', is_flag=True)
@click.option('--plugins', envvar='COBRA_PLUGINS')
@click.option('--debug_memory', envvar='COBRA_DEBUG_MEMORY', is_flag=True)
@click.option('--sentry', envvar='COBRA_SENTRY', is_flag=True)
@click.option('--sentry_url', envvar='COBRA_SENTRY_URL')
@click.option('--no_stats', envvar='COBRA_NO_STATS', is_flag=True)
@click.option('--max_subscriptions', envvar='COBRA_MAX_SUBSCRIPTIONS',
    default=-1)
@click.option('--idle_timeout', envvar='COBRA_IDLE_TIMEOUT',
    default=5 * 60,
    help='idle connections kicked out after X seconds')
def run(host, port, redis_urls, redis_password,
        apps_config_path, verbose, debug_memory, plugins,
        sentry, sentry_url, prod, no_stats, max_subscriptions, idle_timeout):
    '''Run the cobra server

    cobra run --redis_urls 'redis://localhost:7001;redis://localhost:7002'
    
    env COBRA_REDIS_PASSWORD=foobared cobra run
    
    if prod:
        os.environ['COBRA_PROD'] = '1'
    
    preventRootUsage()
    uvloop.install()
    
    if sentry and sentry_url:
        sentry_sdk.init(sentry_url)
    
    print('runServer', locals())
    runner = AppRunner(host, port, redis_urls,
        redis_password, apps_config_path,)"""
verbose, debug_memory, plugins,
not no_stats, max_subscriptions, idle_timeout)
runner.run()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/run.py

---

1.58 openssl 1.1.1f
1.58.1 Available under license:

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1.62 six 1.16.0

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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.

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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.

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In 1995, Guido continued his work on Python at the Corporation for
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in Reston, Virginia where he released several versions of the
software.

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

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

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Open Source Used In Cisco Modeling Labs 2.4 652
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c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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

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1.67 libxcrypt 4.4.10-10ubuntu4

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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.

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**1.68 go-md2man 2.0.1**

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1.69 libiec 1.2.0-3

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1.84 go 1.14.3

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1.96 keyutils 1.6 6ubuntu1

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Upstream-Contact: David Howells <dhowells@redhat.com>
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1.97 ghodss-yaml 1.0.1-0.20190212211648-25d852aebe32
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1.98 cron 3.0pl1 136ubuntu1

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 */

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/man1,
which will be hard since there will be name collisions. (Note that the man
command was originally written by Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src

Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root. When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally. (3) the `-r'
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no `&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-
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   */

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta was December 9, 1988]
[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.23 systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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please, don't flame me for wanting my work to see a wider distribution.
To use this: Sorry, folks, there is no cutey 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/[crontab,crontab.local]
(either put them all in "root"’s crontab, or divide it up and rip out all the ‘su’ commands, collapse the lengthy lists into ranges with steps -- basically, this step is as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with ‘crontab -r’ and watch the daemon track your changes.
if you like it, change your /etc/[rc,rc.local] to use it instead of the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

Found in path(s):
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/README

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/* $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $ */

Found in path(s):
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.1
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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
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*/opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
*/opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
*/opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
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\"*

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1.99 google-uuid 1.3.0

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1.101 linux-atm 2.5.1-4

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1.106 dbus-python 1.2.16-2.ph4

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1.111 importlib-resources 5.4.0

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1.112 patch 2.7.6 6

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Previous maintainers were Bill Mitchell <mitchell@mdd.comm.mot.com>,
Darren Stalder <torin@daft.com>, Adrian Bunk <bunk@fs.tum.de>,
Michael Fedrowitz <michaelf@debian.org> and Christoph Berg <myon@debian.org>.

The upstream source is available at 'ftp://ftp.gnu.org/gnu/patch/', resp.
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Gocheck - A rich testing framework for Go

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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
Version.

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
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// -*- Mode: Go; indent-tabs-mode: t -*-

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 * *
 */

package spdx

// From https://spdx.org/licenses/
// data files: https://github.com/spdx/license-list-data
// Version: 3.11 2020-11-25
//
// jq < json/licenses.json '.licenses | .[] | select(.isOsiApproved == true) | .licenseId' | sort | sed -e 's/$/,/'
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}

// using SPDX license data:
// jq < json/licenses.json .licenses | .[].licenseId | sort | sed -e 's/$/,/'
var allLicenses = []string{
  "0BSD",
  "AAL",
  "Abstyles",
  "Adobe-2006",
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// FIXME: non SPDX licenses that the snapstore uses
"Proprietary",
}

// from
https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291ACi9wIJmQoE4tKRW4rzM1TYilvEVOs/edit?pli%3D1%23heading%3Dh.ruv3yl8g6czd&sa=D&ust=1473291615601000&usg=AFQjCNFyLcPLdEaXlTOesGWxg9Af55mA
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"WxWindows-exception-3.1",
]
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Upstream-Name: snap
Source: https://github.com/snapcore/snapd
Files: *
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tomb - support for clean goroutine termination in Go.

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```
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```

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```
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1.117 mdadm 4.1 5ubuntu1.2

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Martin F. Krafft <madduck@debian.org> took over on Tue, 16 May 2006 13:21:06 -0500

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

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

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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.

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1.125 adduser 3.118ubuntu2
1.125.1 Available under license:
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<imurdock@debian.org> and was maintained by Steve Phillips
<sjp@cvfn.org> from sources written for the Debian Project by Ian
Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<sr1@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt
<rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt
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<mh+debian-packages@zugschlus.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>
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1.127 nghttp2 1.40.0-1build1

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When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
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Public License permits more lax criteria for linking other code with
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We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
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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.

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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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table of data to be supplied by an application program that uses
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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

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

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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Library" must include any data and utility programs needed for
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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use both them and the Library together in an executable that you
distribute.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

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

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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

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---

# DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.130 go-isatty 0.0.13

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1.131 libhttp-cookies-perl 6.08-1

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1.132 xz 5.2.4 1ubuntu1

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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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
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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1.137 cryptography 2.8
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func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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package cmd
func initApache2() {
Licenses["apache"] = License{

Open Source Used In Cisco Modeling Labs 2.4 1511


Name: "Apache 2.0",
PossibleMatches: ["string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"}]
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BSON library for Go

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mgo - MongoDB driver for Go

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    Licenses["lgpl"] = License{
        Name:            "GNU Lesser General Public License",
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        Header: `This program is free software: you can redistribute it and/or modify
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        `,
    }
}

package cmd

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charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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                                Preamble

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

func initAgpl() {
    Licenses["agpl"] = License{
        Name: "GNU Affero General Public License",
        Copyright (C) <year> <name of author>

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        <program> Copyright (C) <year> <name of author>
        This program 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
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        Public License instead of this License. But first, please read

        `,
        }
    }
    package cmd

    func initAgpl() {
        Licenses["agpl"] = License{
            Name: "GNU Affero General Public License",
        }
    }
}
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Version 3, 19 November 2007

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package cmd
import (  
"strings"
"time"

"github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of  
// the license, its possible matches (on the command line as given to cobra),  
// the header to be used with each file on the file's creating, and the text  
// of the license

type License struct {  
Name            string // The type of license in use  
PossibleMatches []string // Similar names to guess  
Text            string  // License text data  
Header          string  // License header for source files
}

func init() {  
// Allows a user to not use a license.
Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

initApache2()  
initMit()  
initBsdClause3()  
initBsdClause2()  
initGpl2()  
initGpl3()  
initLgpl()  
initAgpl()
}

// getLicense returns license specified by user in flag or in config.  
// If user didn't specify the license, it returns Apache License 2.0.  
// // TODO: Inspect project for existing license  
func getLicense() License {  
// If explicitly flagged, use that.
if userLicense != "" {  
return findLicense(userLicense)
}

// If user wants to have custom license, use that.
if viper.IsSet("license.header") || viper.IsSet("license.text") {  
return License{
Header: viper.GetString("license.header")},  
}
Text: viper.GetString("license.text")
}

// If user wants to have built-in license, use that.
if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
}

// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }

    return ""
}
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package cmd
func initGpl2() {
Licenses["gpl2"] = License{
    Name:            "GNU General Public License 2.0",
    PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
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/*

// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                                "2 clause bsd", "simplified bsd license"},
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*/

package legal

import (
    "testing"
)

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}
tomb - support for clean goroutine termination in Go.

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func initMit() {
    Licenses["mit"] = License{
        Name:           "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `
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<signature of Ty Coon>, 1 April 1989
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Douglas Gilbert
10th April 2012

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1.146 twolame 0.4.0-2

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1.152 libblockdev-lvm2 2.23-2ubuntu3

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END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

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1.156 libarchive-zip-perl 1.67-2

1.156.1 Available under license:

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

# Archive-Zip

The Archive::Zip module allows a Perl program to create, manipulate, read, and write Zip archive files.

See https://metacpan.org/pod/Archive::Zip for more information.

# INSTALLATION

To install this module, run the following commands:
perl Makefile.PL
make
make test
make install

# SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

    perldoc Archive::Zip

# SUPPORT

Bugs should be reported via the CPAN bug tracker


For other issues contact the maintainer

# AUTHOR

Currently maintained by Fred Moyer <fred@redhotpenguin.com>

Previously maintained by Adam Kennedy <adamk@cpan.org>

Previously maintained by Steve Peters <steve@fisharerojo.org>.

File attributes code by Maurice Aubrey <maurice@lovelyfilth.com>.

Originally by Ned Konz <nedkonz@cpan.org>.

# COPYRIGHT

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Some parts copyright 2005 Steve Peters.


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

=head1 AUTHOR

Sreeji K. Das <sreeji_k@yahoo.com>

See Archive:Zip by Ned Konz without which this module does not make any sense!

Minor mods by Ned Konz.

=head1 COPYRIGHT

Copyright 2002 Sreeji K. Das.

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=cut

This is the README file for the 20 April 2009 public release of the Info-ZIP group's portable UnZip zipfile-extraction program (and related utilities).

unzip60.zip portable UnZip, version 6.0, source code distribution
unzip60.tar.Z same as above, but compress'd tar format
unzip60.tar.gz same as above, but gzip'd tar format

BEFORE YOU ASK: UnZip, its companion utility Zip, and related utilities and support files can be found in many places; read the file "WHERE" for further details. To contact the authors with suggestions, bug reports, or fixes, continue reading this file (README) and, if this is part of a source distribution, the file "ZipPorts" in the proginfo directory. Also in source distributions: read "BUGS" for a list of known bugs, non-bugs and possible future bugs; INSTALL for instructions on how to build UnZip; and "Contents" for a commented listing of all the distributed files.
GENERAL INFO
-------------
UnZip is an extraction utility for archives compressed in .zip format (also called "zipfiles"). Although highly compatible both with PKWARE's PKZIP and PKUNZIP utilities for MS-DOS and with Info-ZIP's own Zip program, our primary objectives have been portability and non-MS-DOS functionality.

This version of UnZip has been ported to a stupendous array of hardware--from micros to supercomputers--and operating systems: Unix (many flavors), VMS, OS/2 (including DLL version), Windows NT and Windows 95 (including DLL version), Windows CE (GUI version), Windows 3.x (including DLL version), MS-DOS, AmigaDOS, Atari TOS, Acorn RISC OS, BeOS, Macintosh (GUI version), SMS/QDOS, MVS, VM/CMS, FlexOS, Tandem NSK, Human68k (mostly), AOS/VS (partly) and TOPS-20 (partly). UnZip features not found in PKUNZIP include source code; default extraction of directory trees (with a switch to defeat this, rather than the reverse); system-specific extended file attributes; and, of course, the ability to run under most of your favorite operating systems. Plus, it's free. :-)

For source distributions, see the main Contents file for a list of what's included, and read INSTALL for instructions on compiling (including OS-specific comments). The individual operating systems' Contents files (for example, vms/Contents) may list important compilation info in addition to explaining what files are what, so be sure to read them. Some of the ports have their own, special README files, so be sure to look for those, too.

See unzip.1 or unzip.txt for usage (or the corresponding UnZipSFX, ZipInfo, fUnZip and ZipGrep docs). For VMS, unzip_def.rnh or unzip_cli.help may be compiled into unzip.hlp and installed as a normal VMS help entry; see vms/descrip.mms.

CHANGES AND NEW FEATURES
------------------------
UnZip 6.0 finally supports nowadays "large" files of sizes > 2 GiB!
This is the first release containing support for the PKWARE Zip64 enhancements.
Major changes are:
- Support PKWARE ZIP64 extensions, allowing Zip archives and Zip archive entries larger than 4 GiBytes and more than 65536 entries within a single Zip archive. This support is currently only available for Unix, OpenVMS and Win32/Win64.
- Support for bzip2 compression method.
- Support for UTF-8 encoded entry names, both through PKWARE's "General Purpose Flags Bit 11" indicator and Info-ZIP's new "up" unicode path.
extra field. (Currently, on Windows the UTF-8 handling is limited to the character subset contained in the configured non-unicode "system code page".)

- Added "wrong implementation used" warning to error messages of the MSDOS port when used under Win32, in an attempt to reduce false bug reports.
- Fixed "Time of Creation/Time of Use" vulnerability when setting attributes of extracted files, for Unix and Unix-like ports.
- Fixed memory leak when processing invalid deflated data.
- Fixed long-standing bug in unshrink (partial_clear), added boundary checks against invalid compressed data.
- On Unix, keep inherited SGID attribute bit for extracted directories unless restoration of owner/group id or SUID/SGID/Tacky attributes was requested.
- On Unix, allow extracted filenames to contain embedded control characters when explicitly requested by specifying the new command line option "^-^".
- On Unix, support restoration of symbolic link attributes.
- On Unix, support restoration of 32-bit UID/GID data using the new "ux" IZUNIX3 extra field introduced with Zip 3.0.
- Support for ODS5 extended filename syntax on new OpenVMS systems.
- Support symbolic links zipped up on VMS.
- On VMS (only 8.x or better), support symbolic link creation.
- On VMS, support option to create converted text files in Stream_LF format.
- New -D option to suppress restoration of timestamps for extracted directory entries (on those ports that support setting of directory timestamps). By specifying "-DD", this new option also allows to suppress timestamp restoration for ALL extracted files on all UnZip ports which support restoration of timestamps.
- On VMS, the default behaviour is now to skip restoration of directory timestamps; here, "--D" restores ALL timestamps, "-D" restores none.
- On OS/2, Win32, and Unix, the (previously optional) feature UNIXBACKUP to allow saving backup copies of overwritten files on extraction is now enabled by default.

For the UnZip 6.0 release, we want to give special credit to Myles Bennet, who started the job of supporting ZIP64 extensions and Large-File (> 2GiB) and provided a first (alpha-state) port.

The 5.52 maintenance release fixes a few minor problems found in the 5.51 release, closes some more security holes, adds a new AtheOS port, and contains a Win32 extra-field code cleanup that was not finished earlier.

The most important changes are:

- (re)enabled unshrinking support by default, the LZW patents have expired
- fixed an extraction size bug for encrypted stored entries (12 excess bytes were written with 5.51)
- fixed false "uncompressed size mismatch" messages when extracting encrypted archive entries
- do not restore SUID/SGID/Tacky attribute bits on Unix (BeOS, AtheOS)
unless explicitly requested by new ".K" command line qualifier
- optional support for ".W" qualifier to modify the pattern matching syntax
  (with ".W:" "*" stops at directory delimiter, "**" matches unlimited)
- prevent buffer overflow caused by bogus extra-long Zipfile specification
- performance enhancements for VMS port
- fixed windll interface handling of its extraction mode qualifiers
  -nflag, ExtractOnlyNewer, noflag, PromptToOverwrite; added detailed
  explanation of their meanings and interactions to the windll documentation

The 5.51 maintenance release adds a command-line CE port, intended for
batch processing. With the integration of this port, the pUnZip port
has been revised and "revitalized".
The most important changes for the general public are a number of
bug fixes, mostly related to security issues:

- repair a serious bug in the textmode output conversion code for the 16-bit
  ports (16-bit MSDOS, OS/2 1.x, some variants of AMIGA, possibly others)
  which was introduced by the Deflate64 support of release 5.5
- fix a long standing bug in the the inflate decompression method that
  prevented correct extraction in some rare cases
- fixed holes in parent dir traversal security code (e.g.: ".^C." slipped
  through the previous version of the check code)
- fixed security hole: check naming consistency in local and central header
- fixed security hole: prevent extracted symlinks from redirecting file
  extraction paths

The main addition in the 5.5 release is support for PKWARE's new Deflate64(tm)
algorithm, which appeared first in PKZIP 4.0 (published November 2000).
As usual, some other bugfixes and clean-ups have been integrated:

- support for Deflate64 (Zip compression method #9)
- support for extracting VMS variable length record text files on
  any system
- optional "cheap autorun" feature for the SFX stub
- security fixes:
  * strip leading slash from stored pathspecs,
  * remove "./" parent dir path components from extracted file names
- new option ".":" to allow verbatim extraction of file names containing
  "./" parent dir path specs
- fixed file handle leak for the DLL code
- repaired OS2 & WinNT ACL extraction which was broken in 5.42

The 5.42 maintenance release fixes more bugs and cleans up the redistribution
conditions:

- removal of unreduce.c and amiga/timelib.c code to get rid of the last
distribution restrictions beyond the BSD-like Info-ZIP LICENSE
- new generic timelib replacement (currently used by AMIGA port)
- more reasonable mapping rules of UNIX "leading-dot" filenames to the DOS 8.3 name convention
- repaired screensize detection in MORE paging code
  (was broken for DOS/OS2/WIN32 in 5.41)

The 5.41 maintenance release adds another new port and fixes some bugs.

- new BSD-like LICENSE
- new Novell Netware NLM port
- supports extraction of archives with more than 64k entries
- attribute handling of VMS port was broken in UnZip 5.4
- decryption support integrated in the main source distribution

The 5.4 release adds new ports, again. Other important items are changes to the listing format, new supplemental features and several bug fixes (especially concerning time-stamp handling...):

- new IBM OS/390 port, a UNIX derivate (POSIX with EBCDIC charset)
- complete revision of the MacOS port
- changed listing formats to enlarge the file size fields for more digits
- added capability to restore directory attributes on MSDOS, OS/2, WIN32
- enabled support of symbolic links on BeOS
- Unix: optional Acorn filetype support, useful for volumes exported via NFS
- several changes/additions to the DLL API
- GUI SFX stub for Win16 (Windows 3.1) and Win32 (Windows 9x, Windows NT)
- new free GCC compiler environments supported on WIN32
- many time-zone handling bug fixes for WIN32, AMIGA, ...

The 5.32 release adds two new ports and a fix for at least one relatively serious bug:

- new FlexOS port
- new Tandem NSK port
- new Visual BASIC support (compatibility with the Windows DLLs)
- new -T option (set zipfile timestamp) for virtually all ports
- fix for timestamps beyond 2038 (e.g., 2097; crashed under DOS/Win95/NT)
- fix for undetected "dangling" symbolic links (i.e., no pointee)
- fix for VMS indexed-file extraction problem (stored with Zip 2.0 or 2.1)
- further performance optimizations

The 5.31 release included nothing but small bug-fixes and typo corrections, with the exception of some minor performance tweaks.

The 5.3 release added still more ports and more cross-platform portability features:

- new BeOS port
- new SMS/QDOS port
- new Windows CE graphical port
- VM/CMS port fully updated and tested
- MVS port fully updated and tested
- updated Windows DLL port, with WiZ GUI spun off to a separate package
- full Universal Time (UTC or GMT) support for trans-timezone consistency
- cross-platform support for 8-bit characters (ISO Latin-1, OEM code pages)
- support for NT security descriptors (ACLs)
- support for overwriting OS/2 directory EAs if -o option given
- updated Solaris/SVR4 package facility

What is (still!) not added is multi-part archive support (a.k.a. "diskette spanning", though we really mean archive splitting and not the old diskette spanning) and a unified and more powerful DLL interface. These are the two highest priorities for the 6.x releases. Work on the former is almost certain to have commenced by the time you read this. This time we mean it!
You betcha. :-)

Although the DLLs are still basically a mess, the Windows DLLs (16- and 32-bit) now have some documentation and a small example application. Note that they should now be compatible with C/C++, Visual BASIC and Delphi. Weirder languages (FoxBase, etc.) are probably Right Out.

INTERNET RESOURCES

Info-ZIP's web site is at http://www.info-zip.org/pub/infozip/
and contains the most up-to-date information about coming releases,
links to binaries, and common problems.
(See http://www.info-zip.org/pub/infozip/FAQ.html for the latter.)
Files may also be retrieved via ftp://ftp.info-zip.org/pub/infozip/.
Thanks to LEO (Munich, Germany) for previously hosting our primary site.

DISTRIBUTION

If you have a question regarding redistribution of Info-ZIP software, either as is, as packaging for a commercial product, or as an integral part of a commercial product, please read the Frequently Asked Questions (FAQ) section of the included COPYING file. All Info-ZIP releases are now covered by the Info-ZIP license. See the file LICENSE. The most current license should be available at http://www.info-zip.org/license.html and ftp://ftp.info-zip.org/pub/infozip/license.html.

Insofar as C compilers are rare on some platforms and the authors only have direct access to a subset of the supported systems, others may wish to provide ready-to-run executables for new systems. In general there is no problem with this; we require only that such distributions include this README
file, the WHERE file, the LICENSE file (contains copyright/redistribution information), and the appropriate documentation files (unzip.txt and/or unzip.l for UnZip, etc.). If the local system provides a way to make self-extracting archives in which both the executables and text files can be stored together, that's best (in particular, use UnZipSFX if at all possible, even if it's a few kilobytes bigger than the alternatives); otherwise we suggest a bare UnZip executable and a separate zipfile containing the remaining text and binary files. If another archiving method is in common use on the target system (for example, Zoo or LHa), that may also be used.

BUGS AND NEW PORTS: CONTACTING INFO-ZIP

All bug reports and patches (context diffs only, please!) should be submitted either through the new Info-ZIP Discussion Forum at http://www.info-zip.org/board/board.pl or through the Info-ZIP SourceForge site at http://sourceforge.net/projects/infozip/. The forum allows file attachments while SourceForge provides a place to post patches. The old Zip-Bugs@lists.wku.edu e-mail address for the Info-ZIP authors was discontinued after heavy continuous spam, as was the QuickTopic discussion forum. The above methods are public, but we also can be reached directly using the web reply page at http://www.info-zip.org/zip-bug.html. If you need to send us files privately, contact us first for instructions.

"Dumb questions" that aren't adequately answered in the documentation should also be directed to Zip-Bugs rather than to a global forum such as Usenet. (Kindly make certain that your question *isn't* answered by the documentation, however--a great deal of effort has gone into making it clear and complete.)

Suggestions for new features can be discussed on the new Discussion Forum. A new mailing list for Info-ZIP beta testers and interested parties may be created someday, but for now any issues found in the betas should use the forum. We make no promises to act on all suggestions or even all patches, but if it is something that is manifestly useful, sending the required patches to Zip-Bugs directly (as per the instructions in the ZipPorts file) is likely to produce a quicker response than asking us to do it--the authors are always ridiculously short on time. (Please do NOT send patches or encoded zipfiles to the Info-ZIP list. Please DO read the ZipPorts file before sending any large patch. It would be difficult to over-emphasize this point...)

If you are considering a port, not only should you read the ZipPorts file, but also please check in with Zip-Bugs BEFORE getting started, since the code is constantly being updated behind the scenes. (For example, VxWorks, VMOS and Netware ports were once claimed to be under construction, although we have yet to see any up-to-date patches.) We will arrange to send you the latest sources. The alternative is the possibility that your hard work will
be tucked away in a subdirectory and mostly ignored, or completely ignored if someone else has already done the port (and you'd be surprised how often this has happened).

BETA TESTING: JOINING INFO-ZIP
-------------------------------
If you'd like to keep up to date with our UnZip (and companion Zip utility) development, join the ranks of beta testers, add your own thoughts and contributions, or simply lurk, you may join one of our mailing lists. There is an announcements-only list (Info-ZIP-announce) and a general discussion/testing list (Info-ZIP). You must be a subscriber to post, and you can subscribe via the links on our Frequently Asked Questions page:

http://www.info-zip.org/pub/infozip/FAQ.html#lists

(Please note that as of late May 2004, the lists are unavailable pending a move to a new site; we hope to have them restored shortly. In the interim ...) Feel free to use our bug-reporting web page for bug reports and to ask questions not answered on the FAQ page above:


For now the best option is to monitor and contribute to the various threads on the new discussion forum site at:

http://www.info-zip.org/board/board.pl

The second best way to contribute is through the various features at SourceForge, such as the bug posting areas.

There is also a closed mailing list for internal discussions of our core development team. This list is now kept secret to prevent us from being flooded with spam messages.

-- Greg Roelofs (sometimes known as Cave Newt), principal UnZip developer guy, with inspiration from David Kirschbaum, was Author of this text.

-- Christian Spieler (shorthand: SPC), current UnZip maintenance coordinator, applied the most recent changes, with Ed Gordon providing a few additions.

Found in path(s):
*  /opt/cola/permits/1198220920_1630320212.88/0/libarchive-zip-perl-1-67-orig-tar-gz/Archive-Zip-1.67/t/data/bzip-zip/README
No license file was found, but licenses were detected in source scan.

---
abstract: 'Provide an interface to ZIP archive files.'
author:
  - 'Ned Konz <perl@bike-nomad.com>'
build_requires:
  ExtUtils::MakeMaker: '0'
  Test::MockModule: '0'
  Test::More: '0.88'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 6.98, 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: Archive-Zip
no_index:
  directory:
    - t
    - inc
requires:
  Compress::Raw::Zlib: '2.017'
  Encode: '0'
  File::Basename: '0'
  File::Copy: '0'
  File::Find: '0'
  File::Path: '0'
  File::Spec: '0.80'
  File::Temp: '0'
  IO::File: '0'
  IO::Handle: '0'
  IO::Seekable: '0'
  Time::Local: '0'
perl: '5.006'
resources:
  bugtracker: https://rt.cpan.org/Public/Dist/Display.html?Name=Archive-Zip
  repository: https://github.com/redhotpenguin/perl-Archive-Zip.git
  version: '1.67'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

Found in path(s):
* /opt/cola/permits/1198220920_1630320212.88/0/libarchive-zip-perl-1-67-orig-tar-gz/Archive-Zip-1.67/META.yml

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

# Copyright (c) 1990-2007 Info-ZIP. All rights reserved.
# not copyrighted and put in the public domain. If you cannot comply
# public domain versions.
Found in path(s):
* /opt/cola/permits/1198220920_1630320212.88/0/libarchive-zip-perl-1-67-orig-tar-gz/Archive-Zip-1.67/lib/Archive/Zip/Member.pm

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

=pod

=encoding utf8

=head1 NAME

Archive::Zip - Provide an interface to ZIP archive files.

=head1 SYNOPSIS

# Create a Zip file
use Archive::Zip qw( :ERROR_CODES :CONSTANTS );
my $zip = Archive::Zip->new();

# Add a directory
my $dir_member = $zip->addDirectory('dirname/');

# Add a file from a string with compression
my $string_member = $zip->addString('This is a test', 'stringMember.txt');
$string_member->desiredCompressionMethod(COMPRESSION_DEFLATED);

# Add a file from disk
my $file_member = $zip->addFile('xyz.pl', 'AnotherName.pl');

# Save the Zip file
unless ( $zip->writeToFileNamed('someZip.zip') == AZ_OK ) {
  die 'write error';
}

# Read a Zip file
my $somezip = Archive::Zip->new();
unless ( $somezip->read('someZip.zip') == AZ_OK ) {
  die 'read error';
}

# Change the compression type for a file in the Zip
my $member = $somezip->memberNamed('stringMember.txt');
$member->desiredCompressionMethod(COMPRESSION_STORED);
unless ( $zip->writeToFileNamed('someOtherZip.zip') == AZ_OK ) {
  die 'write error';
}
The Archive::Zip module allows a Perl program to create, manipulate, read, and write Zip archive files.

Zip archives can be created, or you can read from existing zip files.

Once created, they can be written to files, streams, or strings. Members can be added, removed, extracted, replaced, rearranged, and enumerated. They can also be renamed or have their dates, comments, or other attributes queried or modified. Their data can be compressed or uncompressed as needed.

Members can be created from members in existing Zip files, or from existing directories, files, or strings.

This module uses the L<Compress::Raw::Zlib> library to read and write the compressed streams inside the files.

One can use L<Archive::Zip::MemberRead> to read the zip file archive members as if they were files.

---

File Naming

Regardless of what your local file system uses for file naming, names in a Zip file are in Unix format (forward slashes (/) separating directory names, etc.).

C<Archive::Zip> tries to be consistent with file naming conventions, and will translate back and forth between native and Zip file names.

However, it can't guess which format names are in. So two rules control what kind of file name you must pass various routines:

- **Names of files are in local format.**
  - C<File::Spec> and C<File::Basenames> are used for various file operations. When you're referring to a file on your system, use its file naming conventions.

- **Names of archive members are in Unix format.**
  - This applies to every method that refers to an archive member, or provides a name for new archive members. The C<extract()> methods that can take one or two names will convert from local to zip names if you call them with a single name.
Archive::Zip::Archive objects are what you ordinarily deal with. These maintain the structure of a zip file, without necessarily holding data. When a zip is read from a disk file, the (possibly compressed) data still lives in the file, not in memory. Archive members hold information about the individual members, but not (usually) the actual member data. When the zip is written to a (different) file, the member data is compressed or copied as needed. It is possible to make archive members whose data is held in a string in memory, but this is not done when a zip file is read. Directory members don't have any data.

Exporter

 Archive::Zip                        Common base class, has defs.
 Archive::Zip::Archive            A Zip archive.
 Archive::Zip::Member             Abstract superclass for all members.
 Archive::Zip::StringMember      Member made from a string
 Archive::Zip::FileMember        Member made from an external file
 Archive::Zip::ZipFileMember     Member that lives in a zip file
 Archive::Zip::NewFileMember     Member whose data is in a file
 Archive::Zip::DirectoryMember   Member that is a directory

EXPORTS

Exports the following constants:

FA_MSDOS FA_UNIX GPBF_ENCRYPTED_MASK
GPBF_DEFLATING_COMPRESSION_MASK GPBF_HAS_DATA_DESCRIPTOR_MASK
COMPRESSION_STORED COMPRESSION_DEFLATED IFA_TEXT_FILE_MASK
IFA_TEXT_FILE IFA_BINARY_FILE COMPRESSION_LEVEL_NONE
COMPRESSION_LEVEL_DEFAULT COMPRESSION_LEVEL_FASTEST
COMPRESSION_LEVEL_BEST_COMPRESSION
ZIP64_AS_NEEDED ZIP64_EOCD ZIP64_HEADERS

Exports the following constants (only necessary for extending the
module):

FA_AMIGA FA_VAX_VMS FA_VM_CMS FA_ATARI_ST FA_OS2_HPFS
FA_MACINTOSH FA_Z_SYSTEM FA_CPM FA_WINDOWS_NTFS
GPBF_Imploding_8K_sliding_dictionary_mask
GPBF_Imploding_3_Shannon_Fano_trees_mask
GPBF_Is_compressed_patched_data_mask Compression_shrunk
Deflating_compression_normal Deflating_compression_maximum
Deflating_compression_fast Deflating_compression_super_fast
Compression_reduced_1 Compression_reduced_2 Compression_reduced_3
Compression_reduced_4 Compression_implied Compression_tokenized
Compression_deflated_enhanced
Compression_PKWARE_data_compression_library_implied

=item :ERROR_CODES

Explained below. Returned from most methods.

AZ_OK AZ_STREAM_END AZ_ERROR AZ_FORMAT_ERROR AZ_IO_ERROR

=back

=head1 ERROR CODES

Many of the methods in Archive::Zip return error codes. These are implemented
as inline subroutines, using the C<use constant> pragma. They can be imported
into your namespace using the C<:ERROR_CODES> tag:

use Archive::Zip qw( :ERROR_CODES );

...

unless ( $zip->read( 'myfile.zip' ) == AZ_OK ) {
  die "whoops!";
}

=over 4

=item AZ_OK (0)

Everything is fine.

=item AZ_STREAM_END (1)

The read stream (or central directory) ended normally.

=item AZ_ERROR (2)
There was some generic kind of error.

=item AZ_FORMAT_ERROR (3)

There is a format error in a ZIP file being read.

=item AZ_IO_ERROR (4)

There was an IO error.

=back

=head2 Compression

Archive::Zip allows each member of a ZIP file to be compressed (using the Deflate algorithm) or uncompressed.

Other compression algorithms that some versions of ZIP have been able to produce are not supported. Each member has two compression methods: the one it's stored as (this is always COMPRESSION_STORED for string and external file members), and the one you desire for the member in the zip file.

These can be different, of course, so you can make a zip member that is not compressed out of one that is, and vice versa.

You can inquire about the current compression and set the desired compression method:

```perl
my $member = $zip->memberNamed('xyz.txt');
$member->compressionMethod();  # return current compression

# set to read uncompressed
$member->desiredCompressionMethod( COMPRESSION_STORED );

# set to read compressed
$member->desiredCompressionMethod( COMPRESSION_DEFLATED );
```

There are two different compression methods:

=over 4

=item COMPRESSION_STORED

File is stored (no compression)

=item COMPRESSION_DEFLATED

File is Deflated
Compression Levels

If a member's desiredCompressionMethod is COMPRESSION_DEFLATED, you can choose different compression levels. This choice may affect the speed of compression and decompression, as well as the size of the compressed member data.

$member->desiredCompressionLevel( 9 );

The levels given can be:

> over 4

> item * 0 or COMPRESSION_LEVEL_NONE

This is the same as saying

$member->desiredCompressionMethod( COMPRESSION_STORED );

> item * 1 .. 9

1 gives the best speed and worst compression, and 9 gives the best compression and worst speed.

> item * COMPRESSION_LEVEL_FASTEST

This is a synonym for level 1.

> item * COMPRESSION_LEVEL_BEST_COMPRESSION

This is a synonym for level 9.

> item * COMPRESSION_LEVEL_DEFAULT

This gives a good compromise between speed and compression, and is currently equivalent to 6 (this is in the zlib code). This is the level that will be used if not specified.

Archive::Zip Methods

The Archive::Zip class (and its invisible subclass Archive::Zip::Archive) implement generic zip file functionality. Creating a new Archive::Zip object actually makes an Archive::Zip::Archive object, but you don't have to worry
about this unless you're subclassing.

=head2 Constructor

=over 4

=item new( [$fileName] )

=item new( { filename => $fileName } )

Make a new, empty zip archive.

    my $zip = Archive::Zip->new();

If an additional argument is passed, new() will call read() to read the contents of an archive:

    my $zip = Archive::Zip->new( 'xyz.zip' );

If a filename argument is passed and the read fails for any reason, new will return undef. For this reason, it may be better to call read separately.

=back

=head2 Zip Archive Utility Methods

These Archive::Zip methods may be called as functions or as object methods. Do not call them as class methods:

    $zip = Archive::Zip->new();
    $crc = Archive::Zip::computeCRC32( 'ghijkl' );  # OK
    $crc = $zip->computeCRC32( 'ghijkl' );         # also OK
    $crc = Archive::Zip->computeCRC32( 'ghijkl' );  # NOT OK

=over 4

=item Archive::Zip::computeCRC32( $string [, $crc] )

=item Archive::Zip::computeCRC32( { string => $string [, checksum => $crc ] } )

This is a utility function that uses the Compress::Raw::Zlib CRC routine to compute a CRC-32. You can get the CRC of a string:

    $crc = Archive::Zip::computeCRC32( $string );

Or you can compute the running CRC:
$crc = 0;
$crc = Archive::Zip::computeCRC32( 'abcdef', $crc );
$crc = Archive::Zip::computeCRC32( 'ghijkl', $crc );

=item Archive::Zip::setChunkSize( $number )

=item Archive::Zip::setChunkSize( { chunkSize => $number } )

Report or change chunk size used for reading and writing. This can make big differences in dealing with large files. Currently, this defaults to 32K. This also changes the chunk size used for Compress::Raw::Zlib. You must call setChunkSize() before reading or writing. This is not exportable, so you must call it like:

    Archive::Zip::setChunkSize( 4096 );

or as a method on a zip (though this is a global setting). Returns old chunk size.

=item Archive::Zip::chunkSize()

Returns the current chunk size:

    my $chunkSize = Archive::Zip::chunkSize();

=item Archive::Zip::setErrorHandler( \&subroutine )

=item Archive::Zip::setErrorHandler( { subroutine => \&subroutine } )

Change the subroutine called with error strings. This defaults to \&Carp::carp, but you may want to change it to get the error strings. This is not exportable, so you must call it like:

    Archive::Zip::setErrorHandler( \&myErrorHandler );

If myErrorHandler is undef, resets handler to default. Returns old error handler. Note that if you call Carp::carp or a similar routine or if you're chaining to the default error handler from your error handler, you may want to increment the number of caller levels that are skipped (do not just set it to a number):

    $Carp::CarpLevel++;

=item Archive::Zip::tempFile( [ $tmpdir ] )
Create a uniquely named temp file. It will be returned open for read/write. If C<$tmpdir> is given, it is used as the name of a directory to create the file in. If not given, creates the file using C<File::Spec::tmpdir()>.

Generally, you can override this choice using the $ENV{TMPDIR} environment variable. But see the L<File::Spec> documentation for your system. Note that on many systems, if you're running in taint mode, then you must make sure that C<$ENV{TMPDIR}> is untainted for it to be used.

Will I<NOT> create C<$tmpdir> if it does not exist (this is a change from prior versions!). Returns file handle and name:

```perl
my ($fh, $name) = Archive::Zip::tempFile();
my ($fh, $name) = Archive::Zip::tempFile('myTempDir');
my $fh = Archive::Zip::tempFile(); # if you don't need the name
```

=head2 Zip Archive Accessors

=over 4

=item members()

Return a copy of the members array

```perl
my @members = $zip->members();
```

=item numberOfMembers()

Return the number of members I have

```perl
=item memberNames()

Return a list of the (internal) file names of the zip members

```perl
=item memberNamed( $string )

```perl
=item memberNamed( { zipName => $string } )

Return ref to member whose filename equals given filename or undef. C<$string> must be in Zip (Unix) filename format.
=item membersMatching( $regex )

=item membersMatching( { regex => $regex } )

Return array of members whose filenames match given regular expression in list context. Returns number of matching members in scalar context.

my @textFileMembers = $zip->membersMatching( '.\.*\.txt' );
# or
my $numberOfTextFiles = $zip->membersMatching( '.\.*\.txt' );

=item zip64()

Returns whether the previous read or write of the archive has been done in zip64 format.

=item desiredZip64Mode()

Gets or sets which parts of the archive should be written in zip64 format: All parts as needed (ZIP64_AS_NEEDED), the default, force writing the zip64 end of central directory record (ZIP64_EOCD), force writing the zip64 EOCD record and all headers in zip64 format (ZIP64_HEADERS).

=item versionMadeBy()

=item versionNeededToExtract()

Gets the fields from the zip64 end of central directory record. These are always 0 if the archive is not in zip64 format.

=item diskNumber()

Return the disk that I start on. Not used for writing zips, but might be interesting if you read a zip in. This should be 0, as Archive::Zip does not handle multi-volume archives.

=item diskNumberWithStartOfCentralDirectory()

Return the disk number that holds the beginning of the central directory. Not used for writing zips, but might be interesting if you read a zip in. This should be 0, as Archive::Zip does not handle multi-volume archives.

=item numberOfCentralDirectoriesOnThisDisk()

Return the number of CD structures in the zipfile last read in.
Not used for writing zips, but might be interesting if you read a zip in.

=item numberOfCentralDirectories()

Return the number of CD structures in the zipfile last read in. Not used for writing zips, but might be interesting if you read a zip in.

=item centralDirectorySize()

Returns central directory size, as read from an external zip file. Not used for writing zips, but might be interesting if you read a zip in.

=item centralDirectoryOffsetWRTStartingDiskNumber()

Returns the offset into the zip file where the CD begins. Not used for writing zips, but might be interesting if you read a zip in.

=item zipfileComment( [ $string ] )

=item zipfileComment( [ { comment => $string } ] )

Get or set the zipfile comment. Returns the old comment.

    print $zip->zipfileComment();
    $zip->zipfileComment( 'New Comment' );

=item eocdOffset()

Returns the (unexpected) number of bytes between where the EOCD was found and where it expected to be. This is normally 0, but would be positive if something (a virus, perhaps) had added bytes somewhere before the EOCD. Not used for writing zips, but might be interesting if you read a zip in. Here is an example of how you can diagnose this:

    my $zip = Archive::Zip->new('somefile.zip');
    if ($zip->eocdOffset())
    {
        warn "A virus has added ", $zip->eocdOffset, " bytes of garbage\n";
    }

The C<eocdOffset()> is used to adjust the starting position of member headers, if necessary.
item fileName()

Returns the name of the file last read from. If nothing has been read yet, returns an empty string; if read from a file handle, returns the handle in string form.

=head2 Zip Archive Member Operations

Various operations on a zip file modify members. When a member is passed as an argument, you can either use a reference to the member itself, or the name of a member. Of course, using the name requires that names be unique within a zip (this is not enforced).

=item removeMember( $memberOrName )

=item removeMember( { memberOrZipName => $memberOrName } )

Remove and return the given member, or match its name and remove it. Returns undef if member or name does not exist in this Zip. No-op if member does not belong to this zip.

=item replaceMember( $memberOrName, $newMember )

=item replaceMember( { memberOrZipName => $memberOrName, newMember => $newMember } )

Remove and return the given member, or match its name and remove it. Replace with new member. Returns undef if member or name does not exist in this Zip, or if C<$newMember> is undefined. It is an (undiagnosed) error to provide a C<$newMember> that is a member of the zip being modified.

    my $member1 = $zip->removeMember( 'xyz' );
    my $member2 = $zip->replaceMember( 'abc', $member1 );
    # now, $member2 (named 'abc') is not in $zip,
    # and $member1 (named 'xyz') is, having taken $member2's place.

=item extractMember( $memberOrName [, $extractedName ] )

=item extractMember( { memberOrZipName => $memberOrName [, name => $extractedName ] } )

Extract the given member, or match its name and extract it.
Returns undef if member does not exist in this Zip. If optional second arg is given, use it as the name of the extracted member. Otherwise, the internal filename of the member is used as the name of the extracted file or directory.
If you pass C<$extractedName>, it should be in the local file system's format.
If you do not pass C<$extractedName> and the internal filename traverses a parent directory or a symbolic link, the extraction will be aborted with C<AC_ERROR> for security reason.
All necessary directories will be created. Returns C<AZ_OK> on success.

=item extractMemberWithoutPaths( $memberOrName [, $extractedName ] )

=item extractMemberWithoutPaths( { memberOrZipName => $memberOrName [, name => $extractedName ] } )

Extract the given member, or match its name and extract it.
Does not use path information (extracts into the current directory). Returns undef if member does not exist in this Zip.
If optional second arg is given, use it as the name of the extracted member (its paths will be deleted too). Otherwise, the internal filename of the member (minus paths) is used as the name of the extracted file or directory. Returns C<AZ_OK> on success.
If you do not pass C<$extractedName> and the internal filename is equalled to a local symbolic link, the extraction will be aborted with C<AC_ERROR> for security reason.

=item addMember( $member )

=item addMember( { member => $member } )

Append a member (possibly from another zip file) to the zip file. Returns the new member. Generally, you will use addFile(), addDirectory(), addFileOrDirectory(), addString(), or read() to add members.

# Move member named 'abc' to end of zip:
my $member = $zip->removeMember( 'abc' );
$zip->addMember( $member );

=item updateMember( $memberOrName, $fileName )

=item updateMember( { memberOrZipName => $memberOrName, name => $fileName } )
Update a single member from the file or directory named C<$fileName>.
Returns the (possibly added or updated) member, if any; C<undef> on
errors.
The comparison is based on C<lastModTime()> and (in the case of a
non-directory) the size of the file.

=item addFile( $fileName [, $newName, $compressionLevel ] )

=item addFile( { filename => $fileName
[, zipName => $newName, compressionLevel => $compressionLevel ] } )

Append a member whose data comes from an external file,
returning the member or undef. The member will have its file
name set to the name of the external file, and its
desiredCompressionMethod set to COMPRESSION_DEFLATED. The
file attributes and last modification time will be set from
the file.
If the name given does not represent a readable plain file or
symbolic link, undef will be returned. C<$fileName> must be
in the format required for the local file system.
The optional C<$newName> argument sets the internal file name
to something different than the given $fileName. C<$newName>,
if given, must be in Zip name format (i.e. Unix).
The text mode bit will be set if the contents appears to be
text (as returned by the C<-T> perl operator).

I<NOTE> that you should not (generally) use absolute path names
in zip member names, as this will cause problems with some zip
tools as well as introduce a security hole and make the zip
harder to use.

=item addDirectory( $directoryName [, $fileName ] )

=item addDirectory( { directoryName => $directoryName
[, zipName => $fileName ] } )

Append a member created from the given directory name. The
directory name does not have to name an existing directory.
If the named directory exists, the file modification time and
permissions are set from the existing directory, otherwise
they are set to now and permissive default permissions.
C<$directoryName> must be in local file system format.
The optional second argument sets the name of the archive
member (which defaults to C<$directoryName>). If given, it
must be in Zip (Unix) format.
Returns the new member.
Listing 10.1: Adding files or directories to a Zip archive.

```perl
=item addFileOrDirectory( $name [, $newName, $compressionLevel ] )

=item addFileOrDirectory( { name => $name [, zipName => $newName, compressionLevel => $compressionLevel ] } )

Append a member from the file or directory named $name. If $newName is given, use it for the name of the new member. Will add or remove trailing slashes from $newName as needed. C<$name> must be in local file system format. The optional second argument sets the name of the archive member (which defaults to C<$name>). If given, it must be in Zip (Unix) format.

=item addString( $stringOrStringRef, $name, [$compressionLevel] )

=item addString( { string => $stringOrStringRef [, zipName => $name, compressionLevel => $compressionLevel ] } )

Append a member created from the given string or string reference. The name is given by the second argument. Returns the new member. The last modification time will be set to now, and the file attributes will be set to permissive defaults.

my $member = $zip->addString( 'This is a test', 'test.txt' );

=item contents( $memberOrMemberName [, $newContents ] )

=item contents( { memberOrZipName => $memberOrMemberName [, contents => $newContents ] } )

Returns the uncompressed data for a particular member, or undefined.

print "xyz.txt contains ". $zip->contents( 'xyz.txt' );

Also can change the contents of a member:

$zip->contents( 'xyz.txt', 'This is the new contents' );

If called expecting an array as the return value, it will include the status as the second value in the array.

($content, $status) = $zip->contents( 'xyz.txt');
```
Zip Archive I/O operations

A Zip archive can be written to a file or file handle, or read from one.

=item writeToFileNamed( $fileName )
=item writeToFileNamed( { fileName => $fileName } )

Write a zip archive to named file. Returns AZ_OK on success.

my $status = $zip->writeToFileNamed( 'xx.zip' );
die "error somewhere" if $status != AZ_OK;

Note that if you use the same name as an existing zip file
that you read in, you will clobber ZipFileMembers. So
instead, write to a different file name, then delete the
original.
If you use the overwrite() or overwriteAs() methods, you can
re-write the original zip in this way.
C<$fileName> should be a valid file name on your system.

=item writeToFileHandle( $fileHandle [, $seekable] )

Write a zip archive to a file handle. Return AZ_OK on
success. The optional second arg tells whether or not to try
to seek backwards to re-write headers. If not provided, it is
set if the Perl C<-f> test returns true. This could fail on
some operating systems, though.

my $fh = IO::File->new( 'someFile.zip', 'w' );
unless ( $zip->writeToFileHandle( $fh ) == AZ_OK ) {
    # error handling
}

If you pass a file handle that is not seekable (like if
you're writing to a pipe or a socket), pass a false second
argument:

my $fh = IO::File->new( '| cat > somefile.zip', 'w' );
$zip->writeToFileHandle( $fh, 0 );  # fh is not seekable
If this method fails during the write of a member, that member and all following it will return false from C<wasWritten()>. See writeCentralDirectory() for a way to deal with this.

If you want, you can write data to the file handle before passing it to writeToFileHandle(); this could be used (for instance) for making self-extracting archives. However, this only works reliably when writing to a real file (as opposed to STDOUT or some other possible non-file).

See examples/selfex.pl for how to write a self-extracting archive.

=item writeCentralDirectory( $fileHandle [, $offset ] )

=item writeCentralDirectory( { fileHandle => $fileHandle [, offset => $offset ] } )

Writes the central directory structure to the given file handle.

Returns AZ_OK on success. If given an $offset, will seek to that point before writing. This can be used for recovery in cases where writeToFileHandle or writeToFileNamed returns an IO error because of running out of space on the destination file.

You can truncate the zip by seeking backwards and then writing the directory:

my $fh = IO::File->new( 'someFile.zip', 'w' );
my $retval = $zip->writeToFileHandle( $fh );
if ( $retval == AZ_IO_ERROR ) {
    my @unwritten = grep { not $_->wasWritten() } $zip->members();
    if (@unwritten) {
        $zip->removeMember( $member ) foreach my $member ( @unwritten );
        $zip->writeCentralDirectory( $fh,
            $unwritten[0]->writeLocalHeaderRelativeOffset());
    }
}

=item overwriteAs( $newName )

=item overwriteAs( { filename => $newName } )

Write the zip to the specified file, as safely as possible. This is done by first writing to a temp file, then renaming the original if it exists, then renaming the temp file, then
deleting the renamed original if it exists. Returns AZ_OK if successful.

=item overwrite()

Write back to the original zip file. See overwriteAs() above. If the zip was not ever read from a file, this generates an error.

=item read( $fileName )

=item read( { filename => $fileName } )

Read zipfile headers from a zip file, appending new members. Returns C<AZ_OK> or error code.

my $zipFile = Archive::Zip->new();
my $status = $zipFile->read( '/some/FileName.zip' );

=item readFromFileHandle( $fileHandle, $filename )

=item readFromFileHandle( { fileHandle => $fileHandle, filename => $filename } )

Read zipfile headers from an already-opened file handle, appending new members. Does not close the file handle. Returns C<AZ_OK> or error code. Note that this requires a seekable file handle; reading from a stream is not yet supported, but using in-memory data is.

my $fh = IO::File->new( '/some/FileName.zip', 'r' );
my $zip1 = Archive::Zip->new();
my $status = $zip1->readFromFileHandle( $fh );
my $zip2 = Archive::Zip->new();
$status = $zip2->readFromFileHandle( $fh );

Read zip using in-memory data (recursable):

open my $fh, "<", "archive.zip" or die $!;
my $zip_data = do { local $.; <$fh> };
my $zip = Archive::Zip->new;
open my $dh, "<+", $zip_data;
$zip->readFromFileHandle ($dh);

=back

=head2 Zip Archive Tree operations

These used to be in Archive::Zip::Tree but got moved into
Archive::Zip. They enable operation on an entire tree of members or files.
A usage example:

```perl
use Archive::Zip;
my $zip = Archive::Zip->new();

# add all readable files and directories below . as xyz/*
$zip->addTree( '.', 'xyz' );

# add all readable plain files below /abc as def/*
$zip->addTree( '/abc', 'def', sub { -f && -r } );

# add all .c files below /tmp as stuff/*
$zip->addTreeMatching( '/tmp', 'stuff', '\.c$' );

# add all .o files below /tmp as stuff/* if they aren't writable
$zip->addTreeMatching( '/tmp', 'stuff', '\.o$', sub { ! -w } );

# add all .so files below /tmp that are smaller than 200 bytes as stuff/*
$zip->addTreeMatching( '/tmp', 'stuff', '\.o$', sub { -s < 200 } );

# and write them into a file
$zip->writeToFileNamed('xxx.zip');

# now extract the same files into /tmpx
$zip->extractTree( 'stuff', '/tmpx' );
```

=item $zip->addTree( $root, $dest [, $pred, $compressionLevel ] ) -- Add tree of files to a zip

=item $zip->addTree( { root => $root, zipName => $dest [, select => $pred, compressionLevel => $compressionLevel ] )

C<$root> is the root of the tree of files and directories to be added. It is a valid directory name on your system. C<$dest> is the name for the root in the zip file (undef or blank means to use relative pathnames). It is a valid ZIP directory name (that is, it uses forward slashes (/) for separating directory components). C<$pred> is an optional subroutine reference to select files: it is passed the name of the prospective file or directory using C<$_>, and if it returns true, the file or directory will be included. The default is to add all readable files and directories. For instance, using

```perl
my $pred = sub { \.txt/ };```
$zip->addTree( '.', '', $pred );

will add all the .txt files in and below the current directory, using relative names, and making the names identical in the zipfile:

<table>
<thead>
<tr>
<th>original name</th>
<th>zip member name</th>
</tr>
</thead>
<tbody>
<tr>
<td>./xyz</td>
<td>xyz</td>
</tr>
<tr>
<td>./a/</td>
<td>a/</td>
</tr>
<tr>
<td>./a/b</td>
<td>a/b</td>
</tr>
</tbody>
</table>

To translate absolute to relative pathnames, just pass them in: $zip->addTree( '/c/d', 'a' );

<table>
<thead>
<tr>
<th>original name</th>
<th>zip member name</th>
</tr>
</thead>
<tbody>
<tr>
<td>/c/d/xyz</td>
<td>a/xyz</td>
</tr>
<tr>
<td>/c/d/a/</td>
<td>a/a/</td>
</tr>
<tr>
<td>/c/d/a/b</td>
<td>a/a/b</td>
</tr>
</tbody>
</table>

Returns AZ_OK on success. Note that this will not follow symbolic links to directories. Note also that this does not check for the validity of filenames.

Note that you generally I<don't> want to make zip archive member names absolute.

==item $zip->addTreeMatching( $root, $dest, $pattern [, $pred, $compressionLevel ] )

==item $zip->addTreeMatching( { root => $root, zipName => $dest, pattern => $pattern [, select => $pred, compressionLevel => $compressionLevel ] } )

$root is the root of the tree of files and directories to be added $dest is the name for the root in the zip file (undef means to use relative pathnames) $pattern is a (non-anchored) regular expression for filenames to match $pred is an optional subroutine reference to select files: it is passed the name of the prospective file or directory in C<$_>, and if it returns true, the file or directory will be included. The default is to add all readable files and directories. To add all files in and below the current directory whose names end in C<.pl>, and make them extract into a subdirectory named C<xyz>, do this:

$zip->addTreeMatching( '.', 'xyz', '.pl$' )

To add all I<writable> files in and below the directory named C</abc> whose names end in C<.pl>, and make them extract into a subdirectory named C<xyz>, do this:
$zip->addTreeMatching( '/abc', 'xyz', '.*pl$', sub { -w } )

Returns AZ_OK on success. Note that this will not follow symbolic links to directories.

=item $zip->updateTree( $root [, $dest , $pred , $mirror, $compressionLevel ] ) ;

=item $zip->updateTree( { root => $root [, zipName => $dest, select => $pred, mirror => $mirror, compressionLevel => $compressionLevel ] } ) ;

Update a zip file from a directory tree.

C<updateTree()> takes the same arguments as C<addTree()>, but first checks to see whether the file or directory already exists in the zip file, and whether it has been changed.

If the fourth argument C<$mirror> is true, then delete all my members if corresponding files were not found.

Returns an error code or AZ_OK if all is well.

=item $zip->extractTree( [ $root, $dest, $volume ] )

=item $zip->extractTree( [ { root => $root, zipName => $dest, volume => $volume } ] )

If you don't give any arguments at all, will extract all the files in the zip with their original names.

If you supply one argument for C<$root>, C<extractTree> will extract all the members whose names start with C<$root> into the current directory, stripping off C<$root> first.
C<$root> is in Zip (Unix) format.
For instance,

$zip->extractTree( 'a' ) ;

when applied to a zip containing the files:
a/x a/b/c ax/d/e d/e will extract:

a/x as ./x

a/b/c as ./b/c

If you give two arguments, C<extractTree> extracts all the members whose names start with C<$root>. It will translate C<$root> into C<$dest> to construct the destination file name.
C<$root> and C<$dest> are in Zip (Unix) format.
For instance,

```perl
$zip->extractTree( 'a', 'd/e' );
```

when applied to a zip containing the files:

`a/x a/b/c ax/d/e d/e` will extract:

`a/x to d/e/x`

`a/b/c to d/e/b/c and ignore ax/d/e and d/e`

If you give three arguments, `extractTree` extracts all the members whose names start with `$root`. It will translate `$root` into `$dest` to construct the destination file name, and then it will convert to local file system format, using `$volume` as the name of the destination volume.

 `$root` and `$dest` are in Zip (Unix) format.

 `$volume` is in local file system format.

For instance, under Windows,

```perl
$zip->extractTree( 'a', 'd/e', 'f:' );
```

when applied to a zip containing the files:

`a/x a/b/c ax/d/e d/e` will extract:

`a/x to f:d/e/x`

`a/b/c to f:d/e/b/c and ignore ax/d/e and d/e`

If you want absolute paths (the prior example used paths relative to the current directory on the destination volume, you can specify these in `$dest`):

```perl
$zip->extractTree( 'a', '/d/e', 'f:' );
```

when applied to a zip containing the files:

`a/x a/b/c ax/d/e d/e` will extract:

`a/x to f:\d\e\x`

`a/b/c to f:\d\e\b\c and ignore ax/d/e and d/e`

If the path to the extracted file traverses a parent directory or a symbolic link, the extraction will be aborted with `AC_ERROR` for security reason. Returns an error code or `AZ_OK` if everything worked OK.
Archive::Zip Global Variables

=item $Archive::Zip::UNICODE

This variable governs how Unicode file and directory names are added to or extracted from an archive. If set, file and directory names are considered to be UTF-8 encoded. This is I<EXPERIMENTAL AND BUGGY> (there are some edge cases on Win32). Please report problems.

```perl
local $Archive::Zip::UNICODE = 1;
$zip->addFile('Déjà vu.txt');
```

MEMBER OPERATIONS

Member Class Methods

Several constructors allow you to construct members without adding them to a zip archive. These work the same as the addFile(), addDirectory(), and addString() zip instance methods described above, but they don't add the new members to a zip.

=item Archive::Zip::Member->newFromString( $stringOrStringRef [, $fileName ] )

=item Archive::Zip::Member->newFromString( { string => $stringOrStringRef [, zipName => $fileName ] } )

Construct a new member from the given string. Returns undef on error.

```perl
my $member = Archive::Zip::Member->newFromString( 'This is a test' );
my $member = Archive::Zip::Member->newFromString( 'This is a test', 'test.txt' );
my $member = Archive::Zip::Member->newFromString( { string => 'This is a test', zipName => 'test.txt' } );
```

=item newFromFile( $fileName [, $zipName ] )

=item newFromFile( { filename => $fileName [, zipName => $zipName ] } )
Construct a new member from the given file. Returns undef on error.

```perl
my $member = Archive::Zip::Member->newFromFile( 'xyz.txt' );
```

- `newDirectoryNamed( $directoryName [, $zipname ] )`

- `newDirectoryNamed( { directoryName => $directoryName [, zipName => $zipname ] } )`

Construct a new member from the given directory. $directoryName must be a valid name on your file system; it does not have to exist.

If given, $zipname will be the name of the zip member; it must be a valid Zip (Unix) name. If not given, it will be converted from $directoryName.

Returns undef on error.

```perl
my $member = Archive::Zip::Member->newDirectoryNamed( 'CVS/' );
```

=head2 Member Simple Accessors

These methods get (and/or set) member attribute values.

The zip64 format requires parts of the member data to be stored in the so-called extra fields. You cannot get nor set this zip64 data through the extra field accessors described in this section. In fact, the low-level member methods ensure that the zip64 data in the extra fields is handled completely transparently and invisibly to the user when members are read or written.

-over 4

- `zip64()`

Returns whether the previous read or write of the member has been done in zip64 format.

- `desiredZip64Mode()`

Gets or sets whether the member's headers should be written in zip64 format: As needed (ZIP64_AS_NEEDED), the default, or always (ZIP64_HEADERS).
=item versionMadeBy()

Gets the field from the member header.

=item fileAttributeFormat( [ $format ] )

=item fileAttributeFormat( [ { format => $format } ] )

Gets or sets the field from the member header. These are C<FA_*> values.

=item versionNeededToExtract()

Gets the field from the member header.

=item bitFlag()

Gets the general purpose bit field from the member header. This is where the C<GPBF_*> bits live.

=item compressionMethod()

Returns the member compression method. This is the method that is currently being used to compress the member data. This will be COMPRESSION_STORED for added string or file members, or any of the C<COMPRESSION_*> values for members from a zip file. However, this module can only handle members whose data is in COMPRESSION_STORED or COMPRESSION_DEFLATED format.

=item desiredCompressionMethod( [ $method ] )

=item desiredCompressionMethod( [ { compressionMethod => $method } ] )

Get or set the member's C<desiredCompressionMethod>. This is the compression method that will be used when the member is written. Returns prior desiredCompressionMethod. Only COMPRESSION_DEFLATED or COMPRESSION_STORED are valid arguments. Changing to COMPRESSION_STORED will change the member desiredCompressionLevel to 0; changing to COMPRESSIOM_DEFLATED will change the member desiredCompressionLevel to COMPRESSIOM_LEVEL_DEFAULT.

=item desiredCompressionLevel( [ $level ] )

=item desiredCompressionLevel( [ { compressionLevel => $level } ] )

Get or set the member's desiredCompressionLevel. This is the
method that will be used to write. Returns prior
desiredCompressionLevel. Valid arguments are 0 through 9,
COMPRESS_FINISHeresLEVEL_NONE, COMPRESS_FINISHeresLEVEL_DEFAULT,
COMPRESS_FINISHeresLEVEL_BEST_COMPRESSION, and
COMPRESS_FINISHeresLEVEL_FASTEST. 0 or COMPRESS_FINISHeresLEVEL_NONE will
change the desiredCompressionMethod to COMPRESS_FINISHeresSTORED.
All other arguments will change the desiredCompressionMethod
to COMPRESS_FINISHeresDEFLATED.

=item externalFileName()

Return the member's external file name, if any, or undef.

=item fileName()

Get or set the member's internal filename. Returns the
(possibly new) filename. Names will have backslashes
converted to forward slashes, and will have multiple
consecutive slashes converted to single ones.

=item lastModFileDateTime()

Return the member's last modification date/time stamp in
MS-DOS format.

=item lastModTime()

Return the member's last modification date/time stamp,
converted to unix localtime format.

  print "Mod Time: " . scalar( localtime( $member->lastModTime() ) );

=item setLastModFileDateTimeFromUnix()

Set the member's lastModFileDateTime from the given unix
time.

  $member->setLastModFileDateTimeFromUnix( time() );

=item internalFileAttributes()

Return the internal file attributes field from the zip
header. This is only set for members read from a zip file.

=item externalFileAttributes()

Return member attributes as read from the ZIP file. Note that
these are NOT UNIX!
=item unixFileAttributes( [ $newAttributes ] )

=item unixFileAttributes( [ { attributes => $newAttributes } ] )

Get or set the member's file attributes using UNIX file attributes. Returns old attributes.

    my $oldAttribs = $member->unixFileAttributes( 0666 );

Note that the return value has more than just the file permissions, so you will have to mask off the lowest bits for comparisons.

=item localExtraField( [ $newField ] )

=item localExtraField( [ { field => $newField } ] )

Gets or sets the extra field that was read from the local header. The extra field must be in the proper format. If it is not or if the new field contains data related to the zip64 format, this method does not modify the extra field and returns AZ_FORMAT_ERROR, otherwise it returns AZ_OK.

=item cdExtraField( [ $newField ] )

=item cdExtraField( [ { field => $newField } ] )

Gets or sets the extra field that was read from the central directory header. The extra field must be in the proper format. If it is not or if the new field contains data related to the zip64 format, this method does not modify the extra field and returns AZ_FORMAT_ERROR, otherwise it returns AZ_OK.

=item extraFields()

Return both local and CD extra fields, concatenated.

=item fileComment( [ $newComment ] )

=item fileComment( [ { comment => $newComment } ] )

Get or set the member's file comment.

=item hasDataDescriptor()

Get or set the data descriptor flag. If this is set, the local header will not necessarily have the correct data
sizes. Instead, a small structure will be stored at the end of the member data with these values. This should be transparent in normal operation.

=item crc32()

Return the CRC-32 value for this member. This will not be set for members that were constructed from strings or external files until after the member has been written.

=item crc32String()

Return the CRC-32 value for this member as an 8 character printable hex string. This will not be set for members that were constructed from strings or external files until after the member has been written.

=item compressedSize()

Return the compressed size for this member. This will not be set for members that were constructed from strings or external files until after the member has been written.

=item uncompressedSize()

Return the uncompressed size for this member.

=item password( [ $password ] )

Returns the password for this member to be used on decryption. If $password is given, it will set the password for the decryption.

=item isEncrypted()

Return true if this member is encrypted. The Archive::Zip module does not currently support creation of encrypted members. Decryption works more or less like this:

my $zip = Archive::Zip->new;
$zip->read("encrypted.zip");
for my $m (map { $zip->memberNamed($_) } $zip->memberNames) {
    $m->password("secret");
    $m->contents;  # is "" when password was wrong

That shows that the password has to be set per member, and not per archive. This might change in the future.

=item isTextFile( [ $flag ] )
Open Source Used In Cisco Modeling Labs 2.4

=item isTextFile( [ { flag => $flag } ] )

Returns true if I am a text file. Also can set the status if given an argument (then returns old state). Note that this module does not currently do anything with this flag upon extraction or storage. That is, bytes are stored in native format whether or not they came from a text file.

=item isBinaryFile()

Returns true if I am a binary file. Also can set the status if given an argument (then returns old state). Note that this module does not currently do anything with this flag upon extraction or storage. That is, bytes are stored in native format whether or not they came from a text file.

=item extractToFileNamed( $fileName )

=item extractToFileNamed( { name => $fileName } )

Extract me to a file with the given name. The file will be created with default modes. Directories will be created as needed. The C<$fileName> argument should be a valid file name on your file system. Returns AZ_OK on success.

=item isDirectory()

Returns true if I am a directory.

=item writeLocalHeaderRelativeOffset()

Returns the file offset in bytes the last time I was written.

=item wasWritten()

Returns true if I was successfully written. Reset at the beginning of a write attempt.

=back

=head2 Low-level member data reading

It is possible to use lower-level routines to access member data streams, rather than the extract* methods and contents(). For instance, here is how to print the uncompressed contents of a member
in chunks using these methods:

```perl
my ( $member, $status, $bufferRef );
$member = $zip->memberNamed( 'xyz.txt' );
$member->desiredCompressionMethod( COMPRESSION_STORED );
$status = $member->rewindData();
die "error $status" unless $status == AZ_OK;
while ( ! $member->readIsDone() )
{
    ( $bufferRef, $status ) = $member->readChunk();
die "error $status"
        if $status != AZ_OK && $status != AZ_STREAM_END;
    # do something with $bufferRef:
    print $$bufferRef;
}
$member->endRead();
```

```perl
=item readChunk( [ $chunkSize ] )

=item readChunk( [ { chunkSize => $chunkSize } ] )
```

This reads the next chunk of given size from the member's data stream and compresses or uncompresses it as necessary, returning a reference to the bytes read and a status. If size argument is not given, defaults to global set by Archive::Zip::setChunkSize. Status is AZ_OK on success until the last chunk, where it returns AZ_STREAM_END. Returns C<($bytes, $status)>.

```perl
my ( $outRef, $status ) = $self->readChunk();
print $outRef if $status != AZ_OK && $status != AZ_STREAM_END;
```

```perl
=item rewindData()

Rewind data and set up for reading data streams or writing zip files. Can take options for C<inflateInit()> or C<deflateInit()>, but this is not likely to be necessary. Subclass overrides should call this method. Returns C<AZ_OK> on success.
```

```perl
=item endRead()

Reset the read variables and free the inflater or deflater. Must be called to close files, etc. Returns AZ_OK on success.
```

```perl
=item readIsDone()
```
Return true if the read has run out of data or encountered an error.

=item contents()

Return the entire uncompressed member data or undef in scalar context. When called in array context, returns C<$string, $status>; status will be AZ_OK on success:

    my $string = $member->contents();
    # or
    my ( $string, $status ) = $member->contents();
    die "error $status" unless $status == AZ_OK;

Can also be used to set the contents of a member (this may change the class of the member):

    $member->contents( "this is my new contents" );

=item extractToFileHandle( $fh )

=item extractToFileHandle( { fileHandle => $fh } )

Extract (and uncompress, if necessary) the member's contents to the given file handle. Return AZ_OK on success.

For members representing symbolic links, pass the name of the symbolic link as file handle. Ensure that all directories in the path to the symbolic link already exist.

=over 4

=item externalFileName()

Return the member's external filename.

=item fh()

Return the member's read file handle. Automatically opens file if
necessary.

=head1 Archive::Zip::ZipFileMember methods

The Archive::Zip::ZipFileMember class represents members that have been read from external zip files.

=item diskNumberStart()

Returns the disk number that the member's local header resides in. Should be 0.

=item localHeaderRelativeOffset()

Returns the offset into the zip file where the member's local header is.

=item dataOffset()

Returns the offset from the beginning of the zip file to the member's data.

=head1 REQUIRED MODULES

L<Archive::Zip> requires several other modules:

L<Carp>

L<Compress::Raw::Zlib>

L<Cwd>

L<File::Basename>

L<File::Copy>

L<File::Find>

L<File::Path>

L<File::Spec>
L<IO::File>

L<IO::Seekable>

L<Time::Local>

=head1 BUGS AND CAVEATS

=head2 When not to use Archive::Zip

If you are just going to be extracting zips (and/or other archives) you
are recommended to look at using L<Archive::Extract> instead, as it is much
easier to use and factors out archive-specific functionality.

=head2 Zip64 Format Support

Since version 1.67 Archive::Zip supports the so-called zip64
format, which overcomes various limitations in the original zip
file format. On some Perl interpreters, however, even version
1.67 and newer of Archive::Zip cannot support the zip64 format.
Among these are all Perl interpreters that lack 64-bit support
and those older than version 5.10.0.

Constant C<ZIP64_SUPPORTED>, exported with tag L<:CONSTANTS>,
equals true if Archive::Zip on the current Perl interpreter
supports the zip64 format. If it does not and you try to read or
write an archive in zip64 format, anyway, Archive::Zip returns an
error C<AZ_ERROR> and reports an error message along the lines of
"zip64 format not supported on this Perl interpreter".

=head2 C<versionMadeBy> and C<versionNeededToExtract>

The zip64 format and the zip file format in general specify what
values to use for the C<versionMadeBy> and
C<versionNeededToExtract> fields in the local file header,
central directory file header, and zip64 EOC record. In
practice however, these fields seem to be more or less randomly
used by various archiver implementations.

To achieve a compromise between backward compatibility and
(whatever) standard compliance, Archive::Zip handles them as
follows:

=over 4

=item

For field C<versionMadeBy>, Archive::Zip uses default value 20
(45 for the zip64 EOCD record) or any previously read value. It never changes that value when writing a header, even if it is written in zip64 format, or when writing the zip64 EOCD record.

=item

Likewise for field C<versionNeededToExtract>, but here Archive::Zip forces a minimum value of 45 when writing a header in zip64 format or the zip64 EOCD record.

=item

Finally, Archive::Zip never depends on the values of these fields in any way when reading an archive from a file or file handle.

=back

=head2 Try to avoid IO::Scalar

One of the most common ways to use Archive::Zip is to generate Zip files in-memory. Most people use L<IO::Scalar> for this purpose.

Unfortunately, as of 1.11 this module no longer works with L<IO::Scalar> as it incorrectly implements seeking.

Anybody using L<IO::Scalar> should consider porting to L<IO::String>, which is smaller, lighter, and is implemented to be perfectly compatible with regular seekable filehandles.

Support for L<IO::Scalar> most likely will B<not> be restored in the future, as L<IO::Scalar> itself cannot change the way it is implemented due to back-compatibility issues.

=head2 Wrong password for encrypted members

When an encrypted member is read using the wrong password, you currently have to re-read the entire archive to try again with the correct password.

=head1 TO DO

* auto-choosing storing vs compression

* extra field hooks (see notes.txt)

* check for duplicates on addition/renaming?

* Text file extraction (line end translation)
* Reading zip files from non-seekable inputs
  (Perhaps by proxying through IO::String?)

* separate unused constants into separate module

* cookbook style docs

* Handle tainted paths correctly

* Work on better compatibility with other IO:: modules

* Support encryption

* More user-friendly decryption

=head1 SUPPORT

Bugs should be reported via the CPAN bug tracker


For other issues contact the maintainer

=head1 AUTHOR

Currently maintained by Fred Moyer <fred@redhotpenguin.com>

Previously maintained by Adam Kennedy <adamk@cpan.org>

Previously maintained by Steve Peters E<lt>steve@fisharerojo.orgE<gt>.

File attributes code by Maurice Aubrey E<lt>maurice@lovelyfilth.comE<gt>.

Originally by Ned Konz E<lt>nedkonz@cpan.orgE<gt>.

=head1 COPYRIGHT

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it under the same terms as Perl itself.
Look at L<Archive::Zip::MemberRead> which is a wrapper that allows one to read Zip archive members as if they were files.

L<Compress::Raw::Zlib>, L<Archive::Tar>, L<Archive::Extract>

=cut

Found in path(s):
* /opt/cola/permits/1198220920_1630320212.88/0/libarchive-zip-perl-1-67-orig-tar-gz/Archive-Zip-1.67/lib/Archive/Zip.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Archive::Zip::Tree - (DEPRECATED) methods for adding/extracting trees using Archive::Zip

=head1 DESCRIPTION

This module is deprecated, because all its methods were moved into the main Archive::Zip module.

It is included in the distribution merely to avoid breaking old code.

See L<Archive::Zip>.

=head1 AUTHOR

Ned Konz, perl@bike-nomad.com

=head1 COPYRIGHT

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=head1 SEE ALSO

L<Archive::Zip>

=cut

Found in path(s):
* /opt/cola/permits/1198220920_1630320212.88/0/libarchive-zip-perl-1-67-orig-tar-gz/Archive-Zip-1.67/lib/Archive/Zip/Tree.pm
1.157 localechooser 2.71ubuntu4

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1.158 rsync 3.1.3-8

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1.159 dbus-python 1.2.16-1build1

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man/fpurge.3bsd
man/heapsort.3bsd
man/getbsize.3bsd
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man/queue.3bsd
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src/getbsize.c
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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
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Original code for cipher/rfc2268.c.

LIBGCrypt The Written Word 2005-04-15
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src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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1.179 incremental 16.10.1

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1.180 service-identity 18.1.0

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

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

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Android.mk
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1.219 libsmbios 2.4.3-1
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 *
 * Whom: Steve Mertz <steve@dragon-ware.com>
 * Date: 20010111
 * Why: Because I couldn't find one that I liked. So I wrote this one.
 *
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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.223 farjump-go-libudev 0.0.0-20171109190736-8b0739cd6d0b
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1.224 libtry-tiny-perl 0.30-1

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1.226 icu 66.1 2ubuntu2.1
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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,-Bs symbolic

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

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bs symbolic

# 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
This package was debianized by Jay Berkenbilt <qjb@debian.org> on August 5, 2005.
The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on
Tue, 17 Mar 2015.

The original source was downloaded from
http://site.icu-project.org/download

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Version 2, June 1991

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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.

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That's all there is to it!
1.232 jsonpatch 1.22

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1.233 autoconf 2.69-11.1

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Gocheck - A rich testing framework for Go

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BSON library for Go

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mgo - MongoDB driver for Go

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d) Do one of the following:

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b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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// -*- Mode: Go; indent-tabs-mode: t -*-

/*
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 *
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 * it under the terms of the GNU General Public License version 3 as
 * published by the Free Software Foundation.
 *
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 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
 * GNU General Public License for more details.
 *
 * You should have received a copy of the GNU General Public License
 * along with this program.  If not, see <http://www.gnu.org/licenses/>.
 *
 */
package spdx

// From https://spdx.org/licenses/
// data files: https://github.com/spdx/license-list-data
// Version: 3.11 2020-11-25

//
// jq < json/licenses.json | .[].isOsiApproved == true | .licenseId | sort | sed -e 's/$/,/'
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// FIXME: non SPDX licenses that the snapstore uses
"Proprietary",
}

// from https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291ACi9wIImQoE4hKRW4r3MTyiVEVOs/edit?pli%3D1%23heading%3Dh.ruv3yl8g6czd&sa=D&ust=1473291615601000&usg=AFQjCNFyLcPLdEarX1TOesGWxg9Afb57mA
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Upstream-Name: snappy
Source: https://github.com/snapcore/snapd

Files: *
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1.255 openssh 8.2p1-4ubuntu0.4

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1.267 configobj 5.0.6-4.ph3

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

click-contrib

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

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This is why click-contrib exists. The GitHub organization is a collection of possibly experimental third-party packages whose feature set belongs into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

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```python
import io
import re
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
```
readme = f.read()

with io.open("click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = \'(.*?)\'", f.read()).group(1)

setup(
    name="Click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
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    description="Composable command line interface toolkit",
    long_description=readme,
    packages=['click'],
    include_package_data=True,
    python_requires='>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
    classifiers=[
        "Development Status :: 5 - Production/Stable",
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)

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* /opt/cola/permits/1183964583_1627499467.81/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/setup.py

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# binary only, patch it back to the system, and then use a wrapper

Found in path(s):
Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing
----------

Install and update using `pip`:

.. code-block:: text

   $ pip install click

Click supports Python 3.4 and newer, Python 2.7, and PyPy.


A Simple Example
----------------

What does it look like? Here is an example of a simple Click program:
.. code-block:: python

    import click

    @click.command()
    @click.option("--count", default=1, help="Number of greetings.")
    @click.option("--name", prompt="Your name",
                  help="The person to greet.")
    def hello(count, name):
        """Simple program that greets NAME for a total of COUNT times."""
        for _ in range(count):
            click.echo("Hello, %s!" % name)

    if __name__ == '__main__':
        hello()

And what it looks like when run:

.. code-block:: text

    $ python hello.py --count=3
    Your name: Click
    Hello, Click!
    Hello, Click!
    Hello, Click!

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------

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-----

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* Test coverage: https://codecov.io/gh/pallets/click

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1.269 linux-kernel 5.13.0-30.33~20.04.1

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)  
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)  
*  
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.  
* http://www.hypermall.com/  
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY  
* interrupts us (except possibly for removal/insertion of the cable?)  
* 10/4/97 - began heavy inline documentation of the code. Corrected typos  
* and spelling mistakes.  
* 10/5/97 - added code to handle PHY interrupts, disable PHY on  
* loss of link, and correctly re-enable PHY when link is  
* re-established. (put back CFG_PHYIE)  
*  
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.  
*  
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
*  
* Linux driver for the IDT77201 NICStAR PCI ATM controller.  
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
* see init_nicstar() for PHY initialization to change this. This driver  
* expects the Linux ATM stack to support scatter-gather lists  
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
*  
* Implementing minimal-copy of received data:  
* IDT always receives data into a small buffer, then large buffers  
* as needed. This means that data must always be copied to create  
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
* Fix is simple: make large buffers large enough to hold entire  
* SDU, and leave <small_buffer_data> bytes empty at the start. Then  
* copy small buffer contents to head of large buffer.  
* Trick is to avoid fragmenting Linux, due to need for a lot of large  
* buffers. This is done by 2 things:  
* 1) skb->destructor / skb->atm.recycle_buffer  
* combined, allow nicstar_free_rx_skb to be called to  
* recycle large data buffers  
* 2) skb_clone of received buffers  
* See nicstar_free_rx_skb and linearize_buffer for implementation  
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M. Welsh, 6 July 1996

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1.276 bolt 0.8-4ubuntu1

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    include/libssh/bind.h
    include/libssh/buffer.h
    include/libssh/channels.h
    include/libssh/crc32.h
    include/libssh/crypto.h
    include/libssh/dh.h
    include/libssh/ecdh.h
    include/libssh/ed25519.h
include/libssh/gssapi.h
close/libssh/kex.h
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close/libssh/legacy.h
close/libssh/libcrypto.h
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close/libssh/libsshpp.hpp
close/libssh/messages.h
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close/libssh/pki_priv.h
close/libssh/poll.h
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close/libssh/session.h
close/libssh/sftp.h
close/libssh/socket.h
close/libssh/string.h
close/libssh/threads.h
close/libssh/wrapper.h
src/auth1.c
src/base64.c
src/bignum.c
src/bind.c
src/buffer.c
src/client.c
src/connect.c
src/crc32.c
src/ecdh.c
src/error.c
src/gcrypt_missing.c
src/init.c
src/kex.c
src/kex1.c
src/legacy.c
src/libcrypto.c
src/libgrypt.c
src/log.c
src/messages.c
src/packet.c
src/packet1.c
src/packet_crypt.c
src/pcap.c
src/pki_container_openssh.c
src/pki_ed25519.c
src/server.c
src/session.c
src/sftpserver.c
src/socket.c
src/string.c
src/threads.c
src/threads/pthread.c
src/wrapper.c
tests/benchmarks/bench_raw.c
tests/benchmarks/bench_scp.c
tests/benchmarks/bench_sftp.c
tests/benchmarks/benchmarks.c
tests/benchmarks/benchmarks.h
tests/benchmarks/latency.c
tests/client/torture_algorithms.c
tests/client/torture_auth.c
tests/client/torture_connect.c
tests/client/torture_knownhosts.c
tests/client/torture_session.c
tests/test_pcap.c
tests/test_socket.c
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Files: examples/exec.c
        examples/senddata.c
        examples/CMakeLists.txt
        include/libssh/ssh1.h
        include/libssh/ssh2.h
        tests/authentication.c
        tests/benchmarks/bench1.sh
        tests/benchmarks/bench2.sh
        tests/chmodtest.c
        tests/client/torture_proxycommand.c
        tests/client/torture_sftp_dir.c
        tests/client/torture_sftp_read.c
        tests/cmdline.c
        tests/connection.c
        tests/generate.py
        tests/sftp_stress/main.c
        tests/test_exec.c
        tests/test_ssh_bind_accept_fd.c
        tests/test_tunnel.c
        tests/tests.h
        tests/unittests/torture_buffer.c
        tests/unittests/torture_callbacks.c
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Files: examples/authentication.c
examples/connect_ssh.c
examples/examples_common.h
examples/knownhosts.c
examples/libssh_scp.c
examples/libsshpp.cpp
examples/libsshpp_noexcept.cpp
examples/proxy.c
examples/sample.c
examples/samplesftp.c
examples/sampleshd-cb.c
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tests/pkd/pkd_daemon.c
tests/pkd/pkd_daemon.h
tests/pkd/pkd_hello.c
tests/pkd/pkd_keyutil.c
tests/pkd/pkd_keyutil.h
tests/pkd/pkd_util.c
tests/pkd/pkd_util.h

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Files:
src/channels.c
src/channels1.c
src/gzip.c
src/known_hosts.c
src/misc.c
src/options.c
src/pki.c
src/pki_crypto.c
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include/libssh/options.h
src/agent.c
src/callbacks.c
src/config.c
tests/client/torture_forward.c
tests/client/torture_request_env.c
tests/torture.c
tests/torture.h

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    cmake/Modules/DefineCompilerFlags.cmake
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    cmake/Modules/DefinePlatformDefaults.cmake
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Files: cmake/Modules/AddCMockaTest.cmake
cmake/Modules/CheckCCompilerFlagSSP.cmake
cmake/Modules/FindArgp.cmake
cmake/Modules/FindCMocka.cmake
cmake/Modules/FindGCrypt.cmake
cmake/Modules/FindGSSAPI.cmake
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1.278 python-httplib2 0.14.0-1ubuntu1

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1.279 gopacket 1.1.19

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1.280 python3-lazr.restfulclient 0.14.2-2build1

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1.281 alsa-ucm-conf 1.2.2 1ubuntu0.11

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1.283 godbus 0.0.0-20190726142602-4481cbc300e2

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1.284 zstd 1.3.6

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The End

1.291 arptables 0.0.5-1

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1.298 bsdmainutils 11.1.2ubuntu3

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from various sources on the Internet, and I'd also like to thank Oliver
Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing
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1.303 pastebinit 1.5.1-1

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1.306 tcpdump 4.9.3-4ubuntu0.1

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1.307  sbsigntool 0.9.2-2ubuntu1.1

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sbsigntool - utilities for signing UEFI binaries for use with secure boot.

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1.308 charset-normalizer 2.0.12

1.308.1 Available under license :

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17 files are included in the source distribution tar. They are used to verify the standard functions of this library. They are mandatory to run `pytest` but not required to make the lib usable after install. They DO NOT guarantee that the detection-coverage will not regress.

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1.309 libtext-iconv-perl 1.7-7

1.309.1 Available under license:
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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 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):
* /opt/cola/permits/1125674548_1611395382.31/0/libtext-iconv-perl-1-7-orig-2-tar-bz2/Text-Iconv-1.7/README

1.310 xmlsec 1.2.28-2
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xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries

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xmlsec-nss library

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References
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* AOL
http://www.aleksey.com/pipermail/xmlsec.attachments/20030729/0e25648e/attachment.htm
1.311 go 1.17.2

1.311.1 Available under license:

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1.313 mgo 2.0.0-20180704144907-a7e2c1d573e1

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[metadata]
name = MarkupSafe
version = attr: markupsafe.__version__
url = https://palletsprojects.com/p/markupsafe/
project_urls =
Donate = https://palletsprojects.com/donate
Documentation = https://markupsafe.palletsprojects.com/
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long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
Development Status :: 5 - Production/Stable
Environment :: Web Environment
Intended Audience :: Developers
License :: OSI Approved :: BSD License
Operating System :: OS Independent
Programming Language :: Python
Topic :: Internet :: WWW/HTTP :: Dynamic Content
Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
package_dir = = src
include_package_data = True
python_requires = >= 3.7

[options.packages.find]
where = src

[tool:pytest]
testpaths = tests
filterwarnings = error

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

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

[flake8]
select = B, E, F, W, B9, ISC
ignore = E203 E501 E722 W503
max-line-length = 80

[mypy]
files = src/markupsafe
python_version = 3.7
show_error_codes = True
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[egg_info]
tag_build =
tag_date = 0
MarkupSafe

==========

MarkupSafe implements a text object that escapes characters so it is
safe to use in HTML and XML. Characters that have special meanings are
replaced so that they display as the actual characters. This mitigates
injection attacks, meaning untrusted user input can safely be displayed
on a page.

Installing

--------
Install and update using `pip`:

.. code-block:: text

    pip install -U MarkupSafe


Examples
--------

.. code-block:: python

    from markupsafe import Markup, escape

    >>> # escape replaces special characters and wraps in Markup
    >>> escape('<script>alert(document.cookie);</script>"
       Markup('&lt;script&gt;alert(document.cookie);&lt;/script&gt;')

    >>> # wrap in Markup to mark text "safe" and prevent escaping
    >>> Markup("<strong>Hello</strong>")
    Markup('<strong>hello</strong>')</n
    >>> escape(Markup("<strong>Hello</strong>"))
    Markup('<strong>hello</strong>')</n
    >>> # Markup is a str subclass
    >>> # methods and operators escape their arguments
    >>> template = Markup("Hello <em>{name}</em>")
    >>> template.format(name=""World"")
    Markup('Hello &lt;em&gt;World&lt;/em&gt;')

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#@tutorial.ms 8.1 (Berkeley) 8/18/93
"
" Ix is an indexing macro similar to .IX but I've disabled it for now
" Rd is section (region) define and Rm is region mention? Again disable for
" now.
\texttt{xH} is a macro to provide numbered headers that are automatically stuffed
\texttt{\textbackslash x} into a table-of-contents, properly indented, etc. If the first argument
\texttt{\textbackslash x} is numeric, it is taken as the depth for numbering (as for \texttt{.NH}), else
\texttt{\textbackslash x} the default (1) is assumed.
\texttt{\textbackslash x}

\texttt{\textbackslash nP} The initial paragraph distance.
\texttt{\textbackslash nQ} The piece of section number to increment (or 0 if none given)
\texttt{\textbackslash nR} Section header.
\texttt{\textbackslash nS} Indent for toc entry
\texttt{\textbackslash nT} Argument to NH (can't use \texttt{\textbackslash nQ} b/c giving 0 to NH resets the counter)
\texttt{\textbackslash nW} is used to place a string in fixed-width or switch to a
\texttt{\textbackslash n} fixed-width font.
\texttt{\textbackslash n} is a typewriter font for a laserwriter. Use something else if
\texttt{\textbackslash n} you don't have one...
\texttt{\textbackslash n} Anything I put in a display I want to be in fixed-width
\texttt{\textbackslash n} The stuff in .No produces a little stop sign in the left margin
\texttt{\textbackslash n} that says NOTE in it. Unfortunately, it does cause a break, but
\texttt{\textbackslash n} hey. Can't have everything. In case you're wondering how I came
\texttt{\textbackslash n} up with such weird commands, they came from running grn on a
\texttt{\textbackslash n} gremlin file...
\texttt{\textbackslash n}.st cf
\texttt{\textbackslash n} Output table of contents last, with an entry for the index, making
\texttt{\textbackslash n} sure to save and restore the last real page number for the index...
\texttt{\textbackslash n} We are not generating an index
\texttt{\textbackslash n}.XS un(@n
\texttt{\textbackslash n} Index
\texttt{\textbackslash n}.XE

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  * /opt/cola/permits/1256167020_1642545985.57/0/bmake-20181221-orig-tar-gz/bmake/compat.c
  * /opt/cola/permits/1256167020_1642545985.57/0/bmake-20181221-orig-tar-gz/bmake/dir.c
  * /opt/cola/permits/1256167020_1642545985.57/0/bmake-20181221-orig-tar-gz/bmake/buf.c
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* /opt/cola/permits/1256167020_1642652985.57/0/bmake-20181221-orig-tar-gz/bmake/strlist.h

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NAME:
install-mk - install mk files

SYNOPSIS:
install-mk [options] [var=val] [dest]

DESCRIPTION:
This tool installs mk files in a semi-intelligent manner into "dest".

Options:

-n just say what we want to do, but don't touch anything.

-f use -f when copying sys.mk.

-v be verbose

-q be quiet

-m "mode"

Use "mode" for installed files (444).

-o "owner"

Use "owner" for installed files.

-g "group"

Use "group" for installed files.

var=val

Set "var" to "val". See below.

All our *.mk files are copied to "dest" with appropriate ownership and permissions.

By default if a sys.mk can be found in a standard location (that bmake will find) then no sys.mk will be put in "dest".

SKIP_SYS_MK:
If set, we will avoid installing our 'sys.mk'
This is probably a bad idea.

SKIP_BSD_MK:
If set, we will skip making bsd.*.mk links to *.mk

sys.mk:

By default (and provided we are not installing to the system
# mk dir - '/usr/share/mk') we install our own 'sys.mk' which
# includes a sys specific file, or a generic one.
#
# AUTHOR:
#       Simon J. Gerraty <sjg@crufty.net>

# RCSId:
#$Id: install-mk,v 1.160 2018/09/20 00:07:19 sjg Exp $
#
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#
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#
MK_VERSION=20180919
OWNER=
GROUP=
MODE=444
BINMODE=555
ECHO=: 
SKIP=

while : 
do
case "$1" in
  *=*) eval "$1"; shift;;
  +f) cp_f=; shift;;
  -f) cp_f=-f; shift;;
  -m) MODE=$2; shift 2;;
  -o) OWNER=$2; shift 2;;
  -g) GROUP=$2; shift 2;;
  -v) ECHO=echo; shift;;
  -q) ECHO=; shift;;
  -n) ECHO=echo SKIP=; shift;;
  --) shift; break;;
  *) break;;
esac
done
case $# in
0) echo "$0 [options] <destination> [<os>]"
echo "eg."
echo "$0 -o bin -g bin -m 444 /usr/local/share/mk"
exit 1
;;
esac

dest=$1
os=${2:-`uname`}
osrel=${3:-`uname -r`}

Do() {
  $ECHO "$@"
  $SKIP "$@
}

Error() {
  echo "ERROR: $@" >&2
  exit 1
}

Warning() {
  echo "WARNING: $@" >&2
}

[ "$FORCE_SYS_MK" ] && Warning "ignoring: FORCE_{BSD,SYs}_MK (no longer supported)"

SYS_MK_DIR=${SYS_MK_DIR:-/usr/share/mk}
SYS_MK=${SYS_MK:-$SYS_MK_DIR/sys.mk}

realpath() {
  [ -d $1 ] && cd $1 && 'pwd' && return
  echo $1
}

if [ -s $SYS_MK -a -d $dest ]; then
  # if this is a BSD system we don't want to touch $SYS_MK
  dest=`realpath $dest`
sys_mk_dir=`realpath $SYS_MK_DIR`
  if [ $dest = $sys_mk_dir ]; then
    case "$os" in
    *BSD*) SKIP_SYS_MK=:
    SKIP_BSD_MK=:
    ;;
    *)# could be fake?
    if [ ! -d $dest/sys -a ! -s $dest/Generic.sys.mk ]; then
      SKIP_SYS_MK=:
      # play safe
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/*
 * RCSid:
 * $Id: wait.h,v 1.6 2002/11/26 07:53:06 sjg Exp $
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$Id: pathnames.h,v 1.13 2009/08/26 23:43:42 sjg Exp $
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  * /opt/cola/permits/1256167020_1642652985.57/0/bmake-20181221-orig-tar-gz/bmake/make.c
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  * /opt/cola/permits/1256167020_1642652985.57/0/bmake-20181221-orig-tar-gz/bmake/targ.c
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:
# NAME:
# boot-strap
#
# SYNOPSIS:
#boot-strap ["options"]
#boot-strap --prefix=/opt --install
#boot-strap --prefix=$HOME --install-host-target -DWITH_PROG_VERSION
#boot-strap ["options"] op=build
#boot-strap ["options"] op=install
#
# DESCRIPTION:
#This script is used to configure/build bmake it builds for
#each host-target in a different subdir to keep the src clean.
#There is no requirement for an existing make(1).
#
#On successful completion if no '--install' flag is given,
it echos a command to do installation.
#
#The variable "op" defaults to 'all', and is affected by
#--install' flag as above.
#Other values include:
#
#configure
#Just run 'configure'
#
#build
#If 'configure' has not been done, do it, then
#run the build script, and finally 'test'.
#
#install
#If 'build' has not been done, do it, 'test' then
#install.
#
#clean
#attempt to clean up
#
#test
#run the unit-tests. Done automatically after 'build'
#and before 'install'.
#
#The above are leveraged by a trivial makefile for the benefit
#of those that have './configure; make; make install' baked
#into them.
#
#Options:
#
#ad "rc"
#Pick up settings from "rc".
#We look for '.bmake-boot-strap.rc' before processing
#options (unless SKIP_RC is set in environment).
#
#ad "share_dir"
#Where to put man pages and mk files.
#If $prefix ends in $HOST_TARGET, and $prefix/../share
#exists, the default will be that rather than $prefix/share.
#
#ad "mksrc" "mksrc"
#Indicate where the mk files can be found.
#Default is $Mydir/mk
#
#ad "install"
#If build and test work, run bmake install.
#BINDIR=$prefix/bin
#SHAREDIR=$prefix/share
#
#ad "install-host-target"
#As for '--install' but BINDIR=$prefix/$HOST_TARGET/bin
# This is useful when $prefix/ is shared by multiple machines.
#
# Flags relevant when installing:
#
# -DWITHOUT_INSTALL_MK
# Skip installing mk files.
# By default they will be installed to $prefix/share/mk
#
# -DWITH_PROG_VERSION
# Install 'bmake' as 'bmake-$MAKE_VERSION'
# A symlink will be made as 'bmake' unless
# -DWITHOUT_PROG_LINK is set.
#
# Possibly useful configure_args:
#
# --without-meta
# disable use of meta mode.
#
# --without-filemon
# disable use of filemon(9) which is currently only available for NetBSD and FreeBSD.
#
# --with-filemon="path/to/filemon.h"
# enables use of filemon(9) by meta mode.
#
# --with-machine="machine"
# set "machine" to override that determined by machine.sh
#
# --with-force-machine="machine"
# force "machine" even if uname(3) provides a value.
#
# --with-machine_arch="machine_arch"
# set "machine_arch" to override that determined by machine.sh
#
# --with-default-sys-path="syspath"
# set an explicit default "syspath" which is where bmake will look for sys.mk and friends.
#
# AUTHOR:
# Simon J. Gerraty <sjg@crufty.net>

# RCSid:
#$Id: boot-strap,v 1.49 2016/05/29 00:09:14 sjg Exp $
#
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Mydir=`dirname $0`
. "$Mydir/os.sh"
case "$Mydir" in
  /*) ;;
*) Mydir=`cd "$Mydir" && 'pwd'`;;
esac

Usage() {
  [ "$1" ] && echo "ERROR: $@" >&2
echo "Usage:" >&2
echo "$0 [--<configure_arg> ...][<prefix>][--install]" >&2
  exit 1
}

Error() {
  echo "ERROR: $@" >&2
  exit 1
}

source_rc() {
rc="$1"; shift
for d in $]*:*"
  do
   r="${d:+$d/}$rc"
   if [ -f "$r" -a -s "$r" ] || continue
   echo "NOTE: reading $r"
   . "$r"
   break
done
}

cmd_args="$@

# clear some things from the environment that we care about
unset MAKEOBJDIR MAKEOBJDIRPREFIX
#!--install[-host-target] will set this
INSTALL_PREFIX=
# other things we pass to install step
INSTALL_ARGS=
CONFIGURE_ARGS=
MAKESYSPATH=
# pick a useful default prefix (for me at least ;-) 
for prefix in /opt/$HOST_TARGET "$HOME/$HOST_TARGET" /usr/pkg /usr/local ""
do 
[ -d "${prefix:-.}" ] || continue 
case "$prefix" in 
*/$HOST_TARGET) 
p=`dirname $prefix` 
if [ -d $p/share ]; then 
INSTALL_BIN=$HOST_TARGET/bin 
prefix=$p 
fi
::
esac
   echo "NOTE: default prefix=${INSTALL_BIN:+INSTALL_BIN=${INSTALL_BIN}" 
break
done
srcdir=$Mydir
mksrc=$Mydir/mk 
objdir= 
quiet=:

${SKIP_RC:+:} source_re .bmake-boot-strap.rc . "$Mydir/.." "$HOME"

get_optarg() { 
expr "x$1" : "x[^=]*=\(.*\)"
}

here=\'pwd\'
if [ Shere =$Mydir ]; then 
    # avoid pollution
    OBJROOT=../
fi

op=all
BMAKE=

while :
do 
case "$1" in 
--) shift; break;;
--help) sed -n -e "1d;/RCSid/\$d" -e 's/,/\$/g' -e 's/^[^\s]*\s*
--prefix) prefix="$2"; shift;;
--prefix=*) prefix='get_optarg "$1"';;
--src=*) srcdir='get_optarg "$1"';;
--with-mksrc=|--mksrc=*) mksrc='get_optarg "$1"';;
--share=*) share_dir='get_optarg "$1"';;
--share) share_dir="$2"; shift;;
--with-default-sys-path=)
    CONFIGURE_ARGS="$1";;
--with-default-sys-path
    CONFIGURE_ARGS="$1 $2";;
--install) INSTALL_PREFIX=${INSTALL_PREFIX:-$prefix};;
--install-host-target)
    INSTALL_PREFIX=${INSTALL_PREFIX:-$prefix}
    INSTALL_BIN=${HOST_TARGET}/bin;;
--install-destdir=*) INSTALL_DESTDIR='get_optarg "$1"';;
--install-prefix=*) INSTALL_PREFIX='get_optarg "$1"';;
-DWITH*) INSTALL_ARGS="INSTALL_ARGS $1";;
-|[-src) srcdir="$2"; shift;;
-m|--mksrc) mksrc="$2"; shift;;
-o|--objdir) objdir="$2"; shift;;
-q) quiet=;;
-c) source_rc "$2"; shift;;
-*) AddConfigure() {
    case " $CONFIGURE_ARGS " in
        *) CONFIGURE_ARGS="$CONFIGURE_ARGS $1";;
    *) eval "$1"; export \`expr "x$1" : \"x\|{[^=]*}\="\"\`";;
    *) break;;
    esac
    shift
done

AddConfigure() {
    case "$SCONFIGURE_ARGS " in
        *" "$1"*) ;;
        *) CONFIGURE_ARGS="$CONFIGURE_ARGS $1$2";;
    esac
}

GetDir() {
    match="$1"
    shift
    fmatch="$1"
    shift
    for dir in $* do
        [ -d "$dir" ] || continue
case "/$dir/" in
        *$match*) ;;
        *) continue;;
    esac
case "$fmatch" in

("_t=-s
while : do
  case "$1" in
    -C) cd "$2"; shift; shift;;
    -?) _t=$1; shift;;
    *) break;;
  esac
  done
  case "$1" in
    /*) 
      [ $_t "$1" ] && echo "$1"
      return
    ;;
    /*/) want=`echo "$1" | sed 's,^/*[..]*,,'`;;
    /*) want="$1";;
  esac
  here=`'pwd'`
  while : do
    if [ $_t "/$want" ]; then
      echo "$here/$want"
      return
    fi
    cd..
    here=`'pwd'`
    case "$here" in
      ") return;;
  esac
done
)

FindHereOrAbove() {
  _t=-s
  while :
    do
      case "$1" in
        -C) cd "$2"; shift; shift;;
    -?) _t=$1; shift;;
    *) break;;
    esac
    done
    case "$1" in
      /*)
        # we shouldn't be here
        [ $_t "$1" ] && echo "$1"
        return
      ;;
      /*/) want=`echo "$1" | sed 's,^/*[..]*,,'`;;
      /*) want="$1";;
    esac
    here=`'pwd'`
    while :
        do
          if [ $_t "/$want" ]; then
            echo "$here/$want"
            return
          fi
          cd..
          here=`'pwd'`
          case "$here" in
            ") return;;
        esac
        done
    )
  }

  # is $1 missing from $2 (or PATH)?
no_path() {
    eval "__p=\$${2:-PATH}"
    case "$:__p:" in *:*$1*:*) return 1;; *) return 0;; esac
}

# if $1 exists and is not in path, append it
add_path () {
    case "$1" in
    *-) t=$1; shift;;
    *) t=-d;;
    esac
    case "$2,$1" in
    MAKESYSPATH,.../*) ;;
    *) \[ $t ${1:-.} \] || return;;
    esac
    no_path $* && eval ${2:-PATH}="$__p${__p:+:}$1"
}

srcdir=`GetDir /bmake make-bootstrap.sh.in "$srcdir" "$srcdir" "$2" "$Mydir" ./bmake* "$Mydir"/../bmake*`
\[ -d \"${srcdir:-/dev/null}\" \] || Usage

    case "$mksrc" in
    none|-) # we ignore this now
    mksrc=$Mydir/mk
    ;;
    ...
    esac
    # find here or above
    mksrc=`FindHereOrAbove -C "$Mydir" -s "$mksrc/sys.mk"`
    # that found a file
    mksrc=`dirname $mksrc`
    ;;
    *)# guess we want mksrc...
    mksrc=`GetDir /mk sys.mk "$mksrc" "$3" /mk* "$srcdir"/mk* "$srcdir"/./mk*`
    \[ -d \"${mksrc:-/dev/null}\" \] || Usage "Use '-m none' to build without mksrc"
    ;;
    esac

    # Ok, get to work...
    objdir="${objdir:-$OBJROOT$HOST_TARGET}"
    \[ -d "$objdir" \] || mkdir -p "$objdir"
    \[ -d "$objdir" \] || mkdir "$objdir"
    cd "$objdir" || exit 1
    # make it absolute
    objdir="pwd"

    ShareDir() {
    case "$/1" in
    /) \[ -d /share \] || return;;
    */HOST_TARGET)
if [ -d "$1/../share" ]; then
echo `dirname "$1"`/share
return
fi
;;
esac
echo $1/share
}

# make it easy to force prefix to use $HOST_TARGET
: looking at "$prefix"
case "$prefix" in
 */host?target) prefix=`echo "$prefix" | sed "s,host.target,$[HOST_TARGET],""`;;
esac
share_dir="${share_dir:-`ShareDir $prefix`}";

AddConfigure --prefix= "$prefix"
case "$CONFIGURE_ARGS" in
 *--with-*sys-path*) ;; # skip
 *) [ "$share_dir" ] && AddConfigure --with-default-sys-path= "$share_dir/mk";;
esac
if [ "$mksrc" ]; then
 AddConfigure --with-mksrc= "$mksrc"
 # not all cc's support this
 CFLAGS_MF= CFLAGS_MD=
 export CFLAGS_MF CFLAGS_MD
fi

# this makes it easy to run the bmake we just built
# the :tA dance is needed because 'pwd' and even /bin/pwd
# may not give the same result as realpath().
Bmake() {
 ( cd $Mydir &&
  MAKESYSPATH=$mksrc SRCTOP=$Mydir OBJTOP=$objdir \ 
  MAKEOBJDIR=${.CURDIR:S,${SRCTOP:tA},${OBJTOP:tA},} \ 
  ${BMAKE:-$objdir/bmake} -f $Mydir/Makefile "$@"
 )
}

# there is actually a shell where type is not a builtin
# if type is missing, which(1) had better exists!
if (type cat) > /dev/null 2>&1; then
 which() {
  type "$@" | sed 's,[(].*[^/][^/]*q, \1,'
 }
fi
# make sure test below uses the same diff that configure did
TOOL_DIFF=`which diff`
export TOOL_DIFF

op_configure() {
    $srcdir/configure $CONFIGURE_ARGS || exit 1
}

op_build() {
    [ -s make-bootstrap.sh ] || op_configure
    chmod 755 make-bootstrap.sh || exit 1
    ./make-bootstrap.sh || exit 1
    case "$op" in
        build) op_test;;
esac
}

op_test() {
    [ -x bmake ] || op_build
    Bmake test || exit 1
}

op_clean() {
    if [ -x bmake ]; then
        ln bmake bmake$$
        BMAKE=$objdir/bmake$$ Bmake clean
        rm -f bmake$$
        elif [ $objdir != $srcdir ]; then
            rm -rf *
    fi
}

op_install() {
    op_test
    case "$INSTALL_PREFIX,$INSTALL_BIN,$prefix" in
        ,$HOST_TARGET/bin,*/$HOST_TARGET)
            INSTALL_PREFIX=`dirname $prefix`
        ;;
esac
    INSTALL_PREFIX=${INSTALL_PREFIX:-$prefix}
    Bmake install prefix=$INSTALL_PREFIX BINDIR=$INSTALL_PREFIX/${INSTALL_BIN:-bin}
    ${INSTALL_DESTDIR:+DESTDIR=$INSTALL_DESTDIR} $INSTALL_ARGS || exit 1
}

op_all() {
    rm -f make-bootstrap.sh bmake *.o
    if [ -n "$INSTALL_PREFIX" ]; then
        op_install
    else
        rm -f make-bootstrap.sh
        op_build
        Bmake test || exit 1
        op_clean
    fi
}

}
else
op_test
MAKE_VERSION=`sed -n '/^_MAKE_VERSION/ { s,.*=  *,,;p; }' $srcdir/Makefile`

if [ "$srcdir/Makefile" ]; then
make
else
op_test

MAKE_VERSION=`sed -n '/^_MAKE_VERSION/ { s,.*=  *,,;p; }' $srcdir/Makefile`

fi

op_$op
exit 0

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``
`` The escaped newline is retained and passed to the shell, which
`` normally ignores it.
`` However, the tab at the beginning of the following line is removed.
`` [:n]
`` [:start..end]
`` [:*]
`` [:0]
`` [:*]
The named targets are executed in non parallel mode.
If no targets are specified, then all targets are executed in non parallel mode.

The named targets are executed in parallel mode.
If no targets are specified, then all targets are executed in parallel mode.

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* /

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* /opt/cola/permits/1256167020_1642652985.57/0/bmake-20181221-orig-tar-gz/bmake/mk/gendirdeps.mk

1.328 debconf 1.5.73

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
0.5.1/webencodings/tests.py
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from setuptools import setup, find_packages
import io
import os
import re

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

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

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
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        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
    ]
)
"Programming Language :: Python :: Implementation :: PyPy",
"Topic :: Internet :: WWW/HTTP",
],
packages=find_packages(),
)

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==

webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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==

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

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

def generate(url):
    parts = [""

==

webencodings.labels
~~~~~~~~~~~~~~~~~~~~~~

Map encoding labels to their name.

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==
LABELS = {
"
labels = [
    (repr(assert_lower(label)).lstrip('u'),
     repr(encoding['name']).lstrip('u'))
    for category in json.loads(urlopen(url).read().decode('ascii'))
    for encoding in category['encodings']
    for label in encoding['labels']
]
max_len = max(len(label) for label, name in labels)
parts.extend(
    ' %s:%s %s
      * (max_len - len(label)), name)
    for label, name in labels)
parts.append('.')
return缩水(join(parts)

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

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* /opt/cola/permissions/1110814957_1606854649.94/0/webencodings-0.5.1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

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

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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* Python 2.6+ and 3.3+
In order to be compatible with legacy web content when interpreting something like `"Content-Type: text/html; charset=latin1``,
tools need to use a particular set of aliases for encoding labels as well as some overriding rules.
For example, `"US-ASCII`` and `"iso-8859-1`` on the web are actually aliases for `"windows-1252``,
and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.
The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

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

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
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python-webencodings
===================
This is a Python implementation of the `WHATWG Encoding standard`<http://encoding.spec.whatwg.org/>`

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
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For example, `US-ASCII` and `iso-8859-1` on the web are actually aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.
The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

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

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1-tar-gz/webencodings-0.5.1/README.rst

1.331 liburcu 0.11.1-2
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1.339 libxi 1.7.10-0ubuntu1
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1.346 semver 2.13.0

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Local variables:
coding: utf-8
mode: text
mode: rst
End:
vim: fileencoding=utf-8 filetype=rst :

1.347 ceph 15.2.16-0ubuntu0.20.04.1

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<signature of Ty Coon>, 1 April 1989
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1.356 bzip2 1.0.8 2

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

1.357 bash 5.0 6ubuntu1.1

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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.

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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 
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<td>2.2 and above</td>
<td>yes</td>
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<td>yes</td>
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Appendix: How to Apply These Terms to Your New Programs

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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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) 19yy 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

This General Public License does not permit incorporating your program into
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library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.372 libutemplet 1.1.6-4
1.372.1 Available under license:

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

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

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

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

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

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

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

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

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

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

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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a) The modified work must itself be a software library.

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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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the
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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
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.373 casper 1.445.1

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Version 2, June 1991

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   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
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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 Program.

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the
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@version 3.0 (December 2000)

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

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1.385 creack 1.1.18
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Wed, 3 Mar 2004 02:18:54 +0100.

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The upstream source was downloaded from:

git://git.qemu.org/qemu.git

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Upstream Author:

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>>> freebsd-base64-4.8
>>> unicode-5.0

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>>> unicode-5.0

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1.394 dh-python 4.20191017ubuntu7

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1.398 ubuntu-release-upgrader 20.04.38

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# This timer is only activated when on a GCP Ubuntu LTS instance that is not already using Ubuntu Advantage services (via ua-license-check.path).
# This timer triggers a service that will poll the metadata for a GCP instance.
# If the user has added an Ubuntu Pro license to the instance, it will activate Ubuntu Advantage services.

[Unit]
Description=Timer to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Timer]
OnCalendar=*:0/5
RandomizedDelaySec=5min
OnStartupSec=2min
Feature: License check timer only runs in environments where necessary

@series.lts
@uses.config.contract_token
@uses.config.machine_type.gcp.generic

Scenario Outline: license_check job should run periodically on gcp generic lts
  Given a `<release>` machine with ubuntu-advantage-tools installed
    # verify its enabled
  Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    # run it and verify that it didn't disable itself
    When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    # verify attach disables it
    When I wait `5` seconds
    When I attach `contract_token` with sudo
    Then I verify the `ua-license-check` systemd timer is disabled
      # verify detach enables it
      When I run `ua detach --assume-yes` with sudo
      And I wait `5` seconds
      Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
        # verify stopping and deleting marker file and stopping disables it
        # We need to call stop both before and after rm-ing the marker file
        # because at least one version of systemd requires it before (245.4-ubuntu3.11 on focal gcp), and every other tested version of systemd requires it after
        # But this is only necessary when manually running the steps or in this test.
        # `disable_license_checks_if_applicable` works fine with only calling stop after,
        # as evidenced by the "verify attach disables it" steps above passing on focal gcp.
When I run `systemctl stop ua-license-check.timer` with sudo
When I run `rm /var/lib/ubuntu-advantage/marker-license-check` with sudo
When I run `systemctl stop ua-license-check.timer` with sudo
Then I verify the `ua-license-check` systemd timer is disabled
# verify creating marker file enables it
When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
Examples: version

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<th>release</th>
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<td>xenial</td>
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<tr>
<td>bionic</td>
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<td>focal</td>
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@series.hirsute
@uses.config.contract_token
@uses.config.machine_type.gcp.generic
Scenario Outline: license_check is disabled gcp generic non lts

Given a `<release>` machine with ubuntu-advantage-tools installed
Then I verify the `ua-license-check` systemd timer is disabled
# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes
When I run `systemctl start ua-license-check.service` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled
# verify attach and detach does not enable it
When I wait `5` seconds
When I attach `contract_token` with sudo
When I run `ua detach --assume-yes` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled
Examples: version

<table>
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<tr>
<th>release</th>
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@series.all
@uses.config.contract_token
@uses.config.machine_type.lxd.container
@uses.config.machine_type.lxd.vm
@uses.config.machine_type.aws.generic
@uses.config.machine_type.azure.generic
Scenario Outline: license_check is disabled everywhere but gcp generic

Given a `<release>` machine with ubuntu-advantage-tools installed
Then I verify the `ua-license-check` systemd timer is disabled
When I reboot the `<release>` machine
Then I verify the `ua-license-check` systemd timer is disabled
# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes
    When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage-license-check.log` `with sudo` exits `0`
    And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage.log` `with sudo` exits `1`
    Then I verify the `ua-license-check` systemd timer is disabled
# verify attach and detach does not enable it
When I wait `5` seconds
When I attach `contract_token` with sudo
When I run `ua detach --assume-yes` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled
Examples: version
| release |
| xenial |
| bionic |
| focal |
| hirsute |
| impish |
| jammy |

@series.lts
@uses.config.machine_type.aws.pro
@uses.config.machine_type.azure.pro
@uses.config.machine_type.gcp.pro
Scenario Outline: license_check is disabled everywhere but gcp generic
Given a `<release>` machine with ubuntu-advantage-tools installed
When I create the file `/etc/ubuntu-advantage/uaclient.conf` with the following:
```
contract_url: 'https://contracts.canonical.com'
data_dir: /var/lib/ubuntu-advantage
log_level: debug
log_file: /var/log/ubuntu-advantage.log
```
When I run `ua auto-attach` with sudo
Then I verify the `ua-license-check` systemd timer is disabled
# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes
When I run `systemctl start ua-license-check.service` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled
Examples: version
Files: *
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# The marker file used here is only created when on a GCP Ubuntu LTS instance
# that is not already using Ubuntu Advantage services.
# This path triggers a timer that will periodically poll the metadata for a GCP
# instance. If the user has added an Ubuntu Pro license to the instance, it will
# activate Ubuntu Advantage services.
[Unit]
Description=Trigger to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Path]
PathExists=/var/lib/ubuntu-advantage/marker-license-check
Unit=ua-license-check.timer

[Install]
WantedBy=multi-user.target
# This service is only activated when on a GCP Ubuntu LTS instance that is not
# already using Ubuntu Advantage services (via ua-license-check.timer).
# This service polls the metadata for a GCP instance. If the user has added an
# Ubuntu Pro license to the instance, it will activate Ubuntu Advantage services.
[Unit]
Description=Poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)
After=network.target network-online.target systemd-networkd.service ua-auto-attach.service

[Service]
1.411 glib-networking 2.64.2-1ubuntu0.1

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1.412 cryptsetup 2.2.2-3ubuntu2.3
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<!ENTITY book "La Peste: Albert Camus,
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Found in path(s):
* /opt/cola/permits/1155871549_1619073653.5/0/libxml-parser-perl-2-46-orig-tar-gz/XML-Parser-2.46/samples/REC-xml-19980210.xml

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

---
abstract: 'A perl module for parsing XML documents'
author:
  - 'Clark Cooper (coopercc@netheaven.com)'
built_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'
```

Found in path(s):
* /opt/cola/permits/1155871549_1619073653.5/0/libxml-parser-perl-2-46-orig-tar-gz/XML-Parser-2.46/META.yml
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Found in path(s):
* /opt/cola/permits/1155871549_1619073653.5/0/libxml-parser-perl-2-46-orig-tar-gz/XML-Parser-2.46/Parser.pm
* /opt/cola/permits/1155871549_1619073653.5/0/libxml-parser-perl-2-46-orig-tar-gz/XML-Parser-2.46/samples/canonical
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** encoding.h
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*/

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* /opt/cola/permits/1155871549_1619073653.5/0/libxml-parser-perl-2-46-orig-tar-gz/XML-Parser-2.46/Expat/encoding.h
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# LWPExternEnt.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
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 **
 */

1.416 gvalkov-golang-evdev 0.0.0-
20191114124502-287e62b94bcb

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1.417 libvirt-libvirt-go 7.4.0+incompatible

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1.418 juju-environschema 1.0.0

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1.419 tcpdump 4.9.3 4
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1.420 zlib 1.2.3

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

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1.422 canonical-go-efilib 0.0.0-20210909101908-41435fa545d4

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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executable containing the modified Library. (It is understood
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Library will not necessarily be able to recompile the application
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That's all there is to it!

1.429 libhttp-negotiate-perl 6.01 1

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1.430 graphite 1.3.13-11build1

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1.436 libwww-robotrules-perl 6.02 1
1.436.1 Available under license:
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: WWW-RobotRules
Upstream-Contact: Gisle Aas <gisle@activestate.com>
Source: https://metacpan.org/release/WWW-RobotRules

Files: *
1.437 taglib 1.11.1+dfsg.1-0.3ubuntu2

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

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

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

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1.447 glog 1.0.0
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1.448 man-pages 5.05-1
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#!/bin/sh
#
# find_dot_no_parens.sh
#
# Look for function names after /^\[BIR]/ that aren't
# followed by "()".
#
# This script is designed to help with "by hand" tidy-ups after
# the automated changes made by add_parens_for_own_funcs.sh.
#
# The first argument to this script names a manual page directory where
# 'man2' and 'man3' subdirectories can be found. The pages names in
# these directories are used to generate a series of regular expressions
# that can be used to search the manual page files that are named in
# the remaining command-line arguments.
#
# Example usage:
#
#   cd man-pages-x.yy
#   sh find_dots_no_parens.sh . man?/*.? > matches.log
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If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the `\texttt{\textbackslash with@dots{}\textbackslash Texts.}` line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
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c ispell-local-pdict: "ispell-dict"
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1.461 sbsigntool 0.9.2 2ubuntu1

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1.463 juju-ratelimit 1.0.1

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1.464 importlib-resources 5.7.1

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1.466 gir1.2-gdkpixbuf-2.0 2.40.0+dfsg-3ubuntu0.2

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1.467 tzdata 2021e 0ubuntu0.20.04

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## 1.468 lxd-agent-loader 0.4

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1.470 x-crypto 0.0.0-20210817164053-32db794688a5
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1.471 multipath-tools 0.8.3-1ubuntu2
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1.473 pyasn1 0.4.8
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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
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Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/ Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
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ASN.1 library for Python

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

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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------
ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------
With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:
```
```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:
```
```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
OptionalNamedType(
    'room', Integer().subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
    ),
),
DefaultedNamedType(
    'house', Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
    ),
)
)
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
``` Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
```
```python
>>> for field in received_record:
    print('{} is {}'.format(field, received_record[field]))

id is 123
room is 321
house is 0

>>> record == received_record
True

>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The `pyasn1` classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their `pyasn1` classes into Python built-ins:

```python
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```python

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```python

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, `pyasn1` supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming `pyasn1` release.

More information on `pyasn1` APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the `pyasn1-modules`
How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD license. Source code is freely available as a GitHub repo. You could `pip install pyasn1` or download it from PyPI. If something does not work as expected, open an issue at GitHub or post your question on Stack Overflow or try browsing pyasn1 mailing list archives.

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ASN.1 library for Python

Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_, or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

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

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

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

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

-----------

.. toctree::

:maxdepth: 2

/pyasn1/contents

Use case

-------
Changes
-------
All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

License
-------
The PyASN1 software is distributed under 2-clause BSD License.

Getting help
------------
The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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1.474 libvirt-daemon 6.0.0-0ubuntu8.16

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This is a bundle of X.509 certificates of public Certificate Authorities
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file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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1.481 at 3.1.23-1ubuntu1

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parsetime.pl:

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Files: include/libimobiledevice/debugserver.h
include/libimobiledevice/diagnostics_relay.h
include/libimobiledevice/heartbeat.h
include/libimobiledevice/service.h
include/libimobiledevice/syslogrelay.h
src/debugserver.c
src/debugserver.h
src/diagnostics_relay.c
src/diagnostics_relay.h
src/heartbeat.c
src/heartbeat.h
src/syslogrelay.c
src/syslogrelay.h
tools/idevicedate.c
tools/idevicedebug.c
tools/devicebackup.c
tools/devicebackup2.c
tools/devicepair.c
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2010-2014, Nikias Bassen
2010-2015, Martin Szulecki
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2011-2014, Martin Szulecki
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Files: common/thread.c
common/thread.h
include/libimobiledevice/afc.h
include/libimobiledevice/house_arrest.h
include/libimobiledevice/misagent.h
include/libimobiledevice/mobile_image_mounter.h
include/libimobiledevice/mobilebackup.h
include/libimobiledevice/mobilebackup2.h
include/libimobiledevice/notification_proxy.h
include/libimobiledevice/property_list_service.h
include/libimobiledevice/sbservices.h
include/libimobiledevice/screenshotr.h
src/installation_proxy.c
src/installation_proxy.h
src/mobilebackup.c
src/mobilebackup.h
tools/devicebackup.c
tools/devicebackup2.c
tools/devicepair.c
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Files: src/afc.h
src/lockdown.h
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Files: common/socket.c
common/socket.h
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src/webinspector.h
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1.487 async-timeout 3.0.1

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1.488 openapi-spec-validator 0.3.3

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1.490 at-spi2-core 2.36.0-2

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functions (ten lines or less in length), then the use of the object
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1.492 decorator 4.4.2-1.ph4
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Metadata-Version: 1.2
Name: decorator
Version: 4.4.2
Summary: Decorators for Humans
Home-page: https://github.com/micheles/decorator
Author: Michele Simionato
Author-email: michele.simionato@gmail.com
License: new BSD License
Description: Decorators for Humans
=====================

The goal of the decorator module is to make it easy to define
signature-preserving function decorators and decorator factories.
It also includes an implementation of multiple dispatch and other niceties
(please check the docs). It is released under a two-clauses
BSD license, i.e. basically you can do whatever you want with it but I am not
responsible.
Installation
-------------

If you are lazy, just perform

```
$ pip install decorator`
```

which will install just the module on your system.

If you prefer to install the full distribution from source, including
the documentation, clone the `GitHub repo` or download the tarball, unpack it and run

```
$ pip install .`
```

in the main directory, possibly as superuser.

.. _tarball: https://pypi.org/project/decorator/#files
.. _GitHub repo: https://github.com/micheles/decorator

Testing
--------

If you have the source code installation you can run the tests with

```
$ python src/tests/test.py -v`
```

or (if you have setuptools installed)

```
$ python setup.py test`
```

Notice that you may run into trouble if in your system there
is an older version of the decorator module; in such a case remove the
old version. It is safe even to copy the module `decorator.py` over
an existing one, since we kept backward-compatibility for a long time.

Repository
------------

The project is hosted on GitHub. You can look at the source here:

https://github.com/micheles/decorator

Documentation
--------------

The documentation has been moved to
https://github.com/micheles/decorator/blob/master/docs/documentation.md
From there you can get a PDF version by simply using the print functionality of your browser.

Here is the documentation for previous versions of the module:

https://github.com/micheles/decorator/blob/4.3.2/docs/tests.documentation.rst
https://github.com/micheles/decorator/blob/4.2.1/docs/tests.documentation.rst
https://github.com/micheles/decorator/blob/4.1.2/docs/tests.documentation.rst
https://github.com/micheles/decorator/blob/4.0.0/documentation.rst
https://github.com/micheles/decorator/blob/3.4.2/documentation.rst

For the impatient
-----------------

Here is an example of how to define a family of decorators tracing slow operations:

.. code-block:: python

    from decorator import decorator

def warn_slow(func, timelimit=60, *args, **kw):
    t0 = time.time()
    result = func(*args, **kw)
    dt = time.time() - t0
    if dt > timelimit:
        logging.warn('%s took %d seconds', func.__name__, dt)
    else:
        logging.info('%s took %d seconds', func.__name__, dt)
    return result

@warn_slow  # warn if it takes more than 1 minute
def preprocess_input_files(inputdir, tempdir):
    ...

@warn_slow(timelimit=600)  # warn if it takes more than 10 minutes
def run_calculation(tempdir, outdir):
    ...

Enjoy!

Keywords: decorators generic utility
Platform: All
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
1.493 configobj 5.0.6-4

1.493.1 Available under license:

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1.494 pythonurllib 1.25.8 2ubuntu0.1

1.494.1 Available under license:

# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
* Client-verified SSL certificates for HTTPSConnectionPool
* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests
* p.dobrogost <http://code.google.com/u/@WBRSRiBZDhBFXQB6/>  
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>  
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* Thomas Kluyver <thomas@kluyver.me.uk>  
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* brandon-rhodes <http://rhodesmill.org/brandon>  
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* studer <theo.studer@gmail.com>  
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>  
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>  
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>  
  * Support for TLS SNI  
  * API unification of ssl_version/cert_reqs  
  * SSL fingerprint and alternative hostname verification  
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>  
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>  
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>  
  * Correct six.moves conflict  
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>  
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>  
  * Stream method for Response objects.  
  * Return native strings in header values.  
  * Generate 'Host' header when using proxies.
* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>`
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection
* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacababadacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alegaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from `HTTPResponse.stream()`.
* Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
* Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.
* Alexandre Dias <alex.dias@smarts.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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1.496 kerberos 1.17-6ubuntu4.1

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 lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
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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
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lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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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
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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
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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kprop/kpropd_rpc.c
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ItsDangerous
============

... so better sign this

Various helpers to pass data to untrusted environments and to get it back safe and sound. Data is cryptographically signed to ensure that a token has not been tampered with.

It's possible to customize how data is serialized. Data is compressed as needed. A timestamp can be added and verified automatically while loading a token.

Installing
----------

Install and update using `pip`:

.. code-block:: text

    pip install -U itsdangerous


A Simple Example
-----------------

Here's how you could generate a token for transmitting a user's id and name between web requests.

.. code-block:: python

    from itsdangerous import URLSafeSerializer
    auth_s = URLSafeSerializer("secret key", "auth")
    token = auth_s.dumps({'id': 5, 'name': 'itsdangerous'})
    print(token)
    # eyJpZCI6NSwibmFtZSI6Iml0c2Rhbmdlcm91cyJ9.6YP6T0BaO67XP--9UzTrmurXSmg
    data = auth_s.loads(token)
print(data["name"])
# itsdangerous

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- Chat: https://discord.gg/pallets

Found in path(s):
* /opt/cola/permits/1294198813_1649055045.06/0/itsdangerous-2-1-2-tar-gz/itsdangerous-2.1.2/src/itsdangerous.egg-info/PKG-INFO
* /opt/cola/permits/1294198813_1649055045.06/0/itsdangerous-2-1-2-tar-gz/itsdangerous-2.1.2/PKG-INFO

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[metadata]
name = itsdangerous
version = attr: itsdangerous.__version__
url = https://palletsprojects.com/p/itsdangerous/
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://itsdangerous.palletsprojects.com/
  Changes = https://itsdangerous.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/itsdangerous/
  Issue Tracker = https://github.com/pallets/itsdangerous/issues/
  Twitter = https://twitter.com/PalletsTeam
  Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = Safely pass data to untrusted environments and back.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
  Development Status :: 5 - Production/Stable
  Intended Audience :: Developers
  License :: OSI Approved :: BSD License
  Operating System :: OS Independent
  Programming Language :: Python

[options]
packages = find:
package_dir = src
include_package_data = True
python_requires = >= 3.7

[options.packages.find]
where = src

[tool:pytest]
testpaths = tests
filterwarnings = error

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

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

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

[mypy]
files = src/itsdangerous
python_version = 3.7
show_error_codes = True
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untypeddefs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-itsdangerous.jws]
disable_untyped_defs = False

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1294198813_1649055045.06/0/itsdangerous-2-1-2-tar-gz/itsdangerous-2.1.2/setup.cfg

1.501 bc 1.07.1 2build1

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# This timer is only activated when on a GCP Ubuntu LTS instance that is not
# already using Ubuntu Advantage services (via ua-license-check.path).
# This timer triggers a service that will poll the metadata for a GCP instance.
# If the user has added an Ubuntu Pro license to the instance, it will
activate Ubuntu Advantage services.

[Unit]
Description=Timer to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Timer]
OnCalendar=*:0/5
RandomizedDelaySec=5min
OnStartupSec=2min
Feature: License check timer only runs in environments where necessary

@series.lts
@uses.config.contract_token
@uses.config.machine_type.gcp.generic

Scenario Outline: license_check job should run periodically on gcp generic lts
Given a `<release>` machine with ubuntu-advantage-tools installed
# verify its enabled
Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
# run it and verify that it didn't disable itself
When I run `systemctl start ua-license-check.service` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
# verify attach disables it
When I wait `5` seconds
When I attach `contract_token` with sudo
Then I verify the `ua-license-check` systemd timer is disabled
# verify detach enables it
When I run ` ua detach --assume-yes` with sudo
And I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
# verify stopping and deleting marker file and stopping disables it
# We need to call stop both before and after rm-ing the marker file
# because at least one version of systemd requires it before (245.4-4ubuntu3.11
# on focal gcp), and every other tested version of systemd requires it after
# But this is only necessary when manually running the steps or in this test.
# `disable_license_checks_if_applicable` works fine with only calling stop after,
# as evidenced by the "verify attach disables it" steps above passing on focal gcp.
When I run `systemctl stop ua-license-check.timer` with sudo
When I run `rm /var/lib/ubuntu-advantage(marker-license-check` with sudo
When I run `systemctl stop ua-license-check.timer` with sudo
Then I verify the `ua-license-check` systemd timer is disabled
# verify creating marker file enables it
When I run `touch /var/lib/ubuntu-advantage(marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes

Examples: version
| release | xenial | bionic | focal |
Scenario Outline: license_check is disabled gcp generic non lts

Given a `<release>` machine with ubuntu-advantage-tools installed
Then I verify the `ua-license-check` systemd timer is disabled
# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes
When I run `systemctl start ua-license-check.service` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled
# verify attach and detach does not enable it
When I wait `5` seconds
When I attach `contract_token` with sudo
When I run `ua detach --assume-yes` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled
Examples: version
| release |
| hirsute |

Scenario Outline: license_check is disabled everywhere but gcp generic

Given a `<release>` machine with ubuntu-advantage-tools installed
Then I verify the `ua-license-check` systemd timer is disabled
When I reboot the `<release>` machine
Then I verify the `ua-license-check` systemd timer is disabled
# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes
When I run `systemctl start ua-license-check.service` with sudo
When I wait `5` seconds
And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage-license-check.log` `with sudo` exits `0`
And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage.log` `with sudo` exits `1`
Then I verify the `ua-license-check` systemd timer is disabled
# verify attach and detach does not enable it
When I wait `5` seconds
When I attach `contract_token` with sudo
When I run `ua detach --assume-yes` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled

Examples: version

| release |
| xenial  |
| bionic  |
| focal   |
| hirsute |
| impish  |
| jammy   |

@series.lts
@uses.config.machine_type.aws.pro
@uses.config.machine_type.azure.pro
@uses.config.machine_type.gcp.pro

Scenario Outline: license_check is disabled everywhere but gcp generic
Given a `<release>` machine with ubuntu-advantage-tools installed
When I create the file `/etc/ubuntu-advantage/uaclient.conf` with the following:

```
contract_url: 'https://contracts.canonical.com'
data_dir: /var/lib/ubuntu-advantage
log_level: debug
log_file: /var/log/ubuntu-advantage.log
```

When I run `ua auto-attach` with sudo
Then I verify the `ua-license-check` systemd timer is disabled
# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage.marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes
When I run `systemctl start ua-license-check.service` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled

Examples: version

| release |
| xenial  |
| bionic  |
| focal   |

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ubuntu-advantage-script
Source: https://github.com/CanonicalLtd/ubuntu-advantage-script

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# The marker file used here is only created when on a GCP Ubuntu LTS instance
# that is not already using Ubuntu Advantage services.
# This path triggers a timer that will periodically poll the metadata for a GCP
# instance. If the user has added an Ubuntu Pro license to the instance, it will
# activate Ubuntu Advantage services.
[Unit]
Description=Trigger to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Path]
PathExists=/var/lib/ubuntu-advantage/marker-license-check
Unit=ua-license-check.timer

[Install]
WantedBy=multi-user.target
# This service is only activated when on a GCP Ubuntu LTS instance that is not
# already using Ubuntu Advantage services (via ua-license-check.timer).
# This service polls the metadata for a GCP instance. If the user has added an
# Ubuntu Pro license to the instance, it will activate Ubuntu Advantage services.
[Unit]
Description=Poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)
After=network.target network-online.target systemd-network.service ua-auto-attach.service

[Service]
Type=oneshot
ExecStart=/usr/bin/python3 /usr/lib/ubuntu-advantage/license_check.py

1.504 isc-dhcp 4.4.1-2.1ubuntu5.20.04.2

1.504.1 Available under license :

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customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium),
accompanied by a written offer,
valid for at least three years
and valid for as long as you offer spare parts or customer support
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customarily used for software interchange,
for a price no more than your reasonable cost
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or (2) access to copy the Corresponding Source
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1.510 alsa-topology-conf 1.2.2-1

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/* checkTag : validation tool for libzstd
 * command :
 * $ ./checkTag tag
 * checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
 * The tag is then compared to zstd version number.
 * They are compatible if first 3 digits are identical.
 * Anything beyond that is free, and doesn't impact validation.
 * Example : tag v1.8.1.2 is compatible with version 1.8.1
 * When tag and version are not compatible, program exits with error code 1.
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Sphinx AUTHORS file
===================

Sphinx is written and maintained by Georg Brandl <georg@python.org>.

Substantial parts of the templates were written by Armin Ronacher
<armin.ronacher@active-4.com>.

Other contributors, listed alphabetically, are:

* Andi Albrecht -- agogo theme
* Henrique Bastos -- SVG support for graphviz extension
* Daniel Bltmann -- todo extension
* Etienne Desautels -- apidoc module
* Michael Droettboom -- inheritance_diagram extension
* Charles Duffy -- original graphviz extension
* Kevin Dunn -- MathJax extension
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* Ezio Melotti -- collapsible sidebar JavaScript
* Daniel Neuhuser -- JavaScript domain, Python 3 support (GSOC)
* Christopher Perkins -- autosummary integration
* Benjamin Peterson -- unitests
* T. Powers -- HTML output improvements
* Stefan Seefeld -- toctree improvements
Many thanks for all contributions!

There are also a few modules or functions incorporated from other authors and projects:

* sphinx.util.jsdump uses the basestring encoding from simplejson, written by Bob Ippolito, released under the MIT license
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Local Variables:
coding: utf-8
fill-column: 70
End:

1.518 libhtml-tagset-perl 3.20-4
1.518.1 Available under license :
No license file was found, but licenses were detected in source scan.

license: ~

Found in path(s):
* /opt/cola/permits/1205072192_1632168884.18/0/libhtml-tagset-perl-3-20-orig-1-tar-gz/HTML-Tagset-3.20/META.yml
No license file was found, but licenses were detected in source scan.

=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 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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=head1 ACKNOWLEDGEMENTS

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 L<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=HTML-Tagset>. I will be notified, and then you'll automatically be notified of progress on your bug as I make changes.

=cut

Found in path(s):
* /opt/cola/permits/1205072192_1632168884.18/0/libhtml-tagset-perl-3-20-orig-1-tar-gz/HTML-Tagset-3.20/Tagset.pm
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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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* /opt/cola/permits/1205072192_1632168884.18/0/libhtml-tagset-perl-3-20-orig-1-tar-gz/HTML-Tagset-3.20/README

1.519 gdisk 1.0.5 1
1.519.1 Available under license :

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1.529 python-nacl 1.3.0-5

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1.531 jsonschema 3.2.0-1.ph4

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1.532 pkgbinarymangler 144

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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Mersenne Twister

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The `_random' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------
The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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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.

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1.536 libestr 0.1.10 2.1

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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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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1.537 python-pip 20.0.2-5ubuntu1.6
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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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.

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

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

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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1.538 python-click 7.0-3
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Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

--------

Install and update using `pip`:

```
$ pip install click
```

Click supports Python 3.4 and newer, Python 2.7, and PyPy.

```
```
A Simple Example

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

What does it look like? Here is an example of a simple Click program:

.. code-block:: python

    import click

    @click.command()
    @click.option("--count", default=1, help="Number of greetings.")
    @click.option("--name", prompt="Your name",
                  help="The person to greet.")
    def hello(count, name):
        
        """Simple program that greets NAME for a total of COUNT times."""
        for _ in range(count):
            click.echo("Hello, %s!" % name)

    if __name__ == '__main__':
        hello()

And what it looks like when run:

.. code-block:: text

    $ python hello.py --count=3
    Your name: Click
    Hello, Click!
    Hello, Click!
    Hello, Click!

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Links

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* Website: https://palletsprojects.com/p/click/
import io
import re
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = "(.*?)"", f.read()).group(1)

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    version=version,
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Click uses parts of optparse written by Gregory P. Ward and maintained by the Python Software Foundation. This is limited to code in parser.py.

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# binary only, patch it back to the system, and then use a wrapper

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.. _contrib:

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

click-contrib

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

As the userbase of Click grows, more and more major feature requests pop up in Click’s bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

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\$ click\_

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Install and update using `pip`:

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Click supports Python 3.4 and newer, Python 2.7, and PyPy.


A Simple Example
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What does it look like? Here is an example of a simple Click program:

.. code-block:: python

   import click

   @click.command()
   @click.option("--count", default=1, help="Number of greetings.")
   @click.option("--name", prompt="Your name",
                 help="The person to greet.")
   def hello(count, name):
       """Simple program that greets NAME for a total of COUNT times.""
       for _ in range(count):
           click.echo("Hello, %s!" % name)

   if __name__ == '__main__':
       hello()

And what it looks like when run:

.. code-block:: text

   $ python hello.py --count=3
   Your name: Click

   Hello, Click!
Hello, Click!
Hello, Click!
Hello, Click!

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1.539 tablewriter 0.0.5
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1.540 pythoncommandnotfound 20.04.5

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1.541 libshout 2.4.3-1

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

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

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
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file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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1.548 libvpx 1.8.2-1build1

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1.550 python-distro 1.4.0-1

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1.557 distlib 0.3.0

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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=======================
Distutils2 Contributors
=======================

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
- Konrad Delong
- Josip Djolonga
- John Edmonds
- Andr Espaze
- Boris Feld
- Andrew Francis
- Hallvard B Furuseth
- Patrice Gauthier
- Yannick Gingras
- Filip Gruszczyski
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1.558 glibc 2.31-0ubuntu9.2

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## 1.561 html5lib 1.1

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1.563 libevent 2.1.11-stable-1

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1.564 python-setuptools 44.0.0-2

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

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

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

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

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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
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normally distributed (in either source or binary form) with the major
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work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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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.

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

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   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
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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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      application-supplied function or table used by this function must
      be optional: if the application does not supply it, the square
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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copy of the library already present on the user's computer system,
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1.581 libyaml 0.1.7

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1.582 twinj-uuid 1.0.0

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1.583 mdlayher-socket 0.2.3

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1.584 markupsafe 1.1.0-1build2

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* /opt/cola/permits/1128978950_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/setup.py

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Metadata-Version: 1.2
Name: MarkupSafe
Version: 1.1.0
Summary: Safely add untrusted strings to HTML/XML markup.
Home-page: https://www.palletsprojects.com/p/markupsafe/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets Team
Maintainer-email: contact@palletsprojects.com
License: BSD
Project-URL: Documentation, https://markupsafe.palletsprojects.com/
Description: MarkupSafe

==========

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing

--------

Install and update using `pip`:

.. code-block:: text

   pip install -U MarkupSafe

Examples
--------

.. code-block:: pycon

    >>> from markupsafe import Markup, escape
    >>> # escape replaces special characters and wraps in Markup
    >>> escape('&lt;script&gt;alert(document.cookie);&lt;/script&gt;')
    Markup(u'&lt;script&gt;alert(document.cookie);&lt;/script&gt;')
    >>> # wrap in Markup to mark text "safe" and prevent escaping
    >>> Markup('&lt;strong&gt;Hello&lt;/strong&gt;')
    Markup('&lt;strong&gt;hello&lt;/strong&gt;')
    >>> escape(Markup('&lt;strong&gt;Hello&lt;/strong&gt;'))
    Markup('&lt;strong&gt;hello&lt;/strong&gt;')
    >>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
    >>> # methods and operators escape their arguments
    >>> template = Markup("Hello <em>%s</em>")
    >>> template % '"World"
    Markup('Hello <em>&#34;World"</em>')

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------

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.. _please donate today: https://psfmember.org/civicrm/contribute/transact?reset=1&id=20

Links
-----

* Website: https://www.palletsprojects.com/p/markupsafe/
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* License: `BSD <https://github.com/pallets/markupsafe/blob/master/LICENSE.rst>`_
* Releases: https://pypi.org/project/MarkupSafe/
* Code: https://github.com/pallets/markupsafe
* Issue tracker: https://github.com/pallets/markupsafe/issues
* Test status:

  * Linux, Mac: https://travis-ci.org/pallets/markupsafe
  * Windows: https://ci.appveyor.com/project/pallets/markupsafe

  * Test coverage: https://codecov.io/gh/pallets/markupsafe
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7,!=3.0.*,!=3.1.*,!=3.2.*,!=3.3.*

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* /opt/cola/permits/1128978950_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/MarkupSafe.egg-info/PKG-INFO
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* /opt/cola/permits/1128978950_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/markupsafe/_compat.py
* /opt/cola/permits/1128978950_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/markupsafe/__init__.py
* /opt/cola/permits/1128978950_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/markupsafe/_native.py

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/**
 * markupsafe._speedups
 * ~~~~~~~~~~~~~~~~~~~~
 *
 * C implementation of escaping for better performance. Used instead of
 * the native Python implementation when compiled.
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 */

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1.585 thin-provisioning-tools 0.8.5-4build1

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bash: ftp.gnu.org:/pub/gnu/bash/bash-4.3.tar.gz

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1.588 liblwp-protocol-https-perl 6.07-2ubuntu2

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=head1 NAME

LWP::Protocol::https - Provide https support for LWP::UserAgent

=head1 SYNOPSIS

use LWP::UserAgent;

$ua = LWP::UserAgent->new(ssl_opts => { verify_hostname => 1 });
$res = $ua->get("https://www.example.com");

# specify a CA path
$ua = LWP::UserAgent->new(
    ssl_opts => {
        SSL_ca_path => '/etc/ssl/certs',
        verify_hostname => 1,
    }
);

=head1 DESCRIPTION

The LWP::Protocol::https module provides support for using https schemed URLs with LWP. This module is a plug-in to the LWP protocol handling, so you don't use it directly. Once the module is installed LWP is able to access sites using HTTP over SSL/TLS.
If hostname verification is requested by LWP::UserAgent's C<ssl_opts>, and neither C<SSL_ca_file> nor C<SSL_ca_path> is set, then C<SSL_ca_file> is implied to be the one provided by Mozilla::CA. If the Mozilla::CA module isn't available SSL requests will fail. Either install this module, set up an alternative C<SSL_ca_file> or disable hostname verification.

This module used to be bundled with the libwww-perl, but it was unbundled in v6.02 in order to be able to declare its dependencies properly for the CPAN tool-chain. Applications that need https support can just declare their dependency on LWP::Protocol::https and will no longer need to know what underlying modules to install.

=head1 SEE ALSO

L<IO::Socket::SSL>, L<Crypt::SSLeay>, L<Mozilla::CA>

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* /opt/cola/permits/1109180166_1606268542.5/0/liblwp-protocol-https-perl-6-07-orig-1-tar-gz/LWP-Protocol-https-6.07/lib/LWP/Protocol/https.pm
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---
abstract: 'Provide https support for LWP::UserAgent'
author:
- 'Gisle Aas <gisle@activestate.com>'
build_requires:
  Test::More: '0'
  Test::RequiresInternet: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, 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: LWP-Protocol-https
no_index:
directory:
  - t
  - inc
requires:
IO::Socket::SSL: '1.54'
LWP::UserAgent: '6.06'
Mozilla::CA: '20110101'
Net::HTTPS: '6'
perl: '5.008001'

resources:
  MailingList: mailto:libwww@perl.org
  repository: http://github.com/libwww-perl/lwp-protocol-https
  version: '6.07'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
  * /opt/cola/permits/1109180166_1606268542.50/liblwp-protocol-https-6.07-orig-1-tar-gz/LWP-Protocol-https-6.07/META.yml

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######################################################################
LWP::Protocol::https 6.06
######################################################################

NAME
  LWP::Protocol::https - Provide https support for LWP::UserAgent

SYNOPSIS
  use LWP::UserAgent;

  $ua = LWP::UserAgent->new(ssl_opts => { verify_hostname => 1 });
  $res = $ua->get("https://www.example.com");

DESCRIPTION
  The LWP::Protocol::https module provides support for using https schemed
  URLs with LWP. This module is a plug-in to the LWP protocol handling, so
  you don't use it directly. Once the module is installed LWP is able to
  access sites using HTTP over SSL/TLS.

  If hostname verification is requested by LWP::UserAgent's "ssl_opts",
  and neither "SSL_ca_file" nor "SSL_ca_path" is set, then "SSL_ca_file"
  is implied to be the one provided by Mozilla::CA. If the Mozilla::CA
  module isn't available SSL requests will fail. Either install this
  module, set up an alternative "SSL_ca_file" or disable hostname
  verification.

  This module used to be bundled with the libwww-perl, but it was
  unbundled in v6.02 in order to be able to declare its dependencies
  properly for the CPAN tool-chain. Applications that need https support
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SEE ALSO
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1.589 colorama 0.4.4
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1.590 polkit 0.105-26ubuntu1.3

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[This is the first released version of the library GPL. It is
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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 analoguous 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.

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its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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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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1.593 talloc 2.3.1-0ubuntu0.20.04.1

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   Samba trivial allocation library - new interface

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1.594 bind 9.16.1-0ubuntu2.10

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1.595 urllib3 1.25.8

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

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  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

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* studer <theo.studer@gmail.com>
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* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`
  * Creation of `HTTPConnectionPool.ResponseCls`

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarks.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
    * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside
    HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.596 gopkg.in-tomb 2.0.0-20161208151619-d5d1b5820637
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1.600 libsemanage 3.0 1build2

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1.602 oauthlib 3.1.0

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1.603 rdma-cm 28.0-1ubuntu1

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immerrr again
Alexander Artemenko
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Source: https://github.com/snapcore/snapd

Files: *
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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: snapd
Source: https://github.com/snapcore/snapd

Files: *

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1.618 flask 2.1.2

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Name: Flask
Version: 2.1.2
Summary: A simple framework for building complex web applications.
Home-page: https://palletsprojects.com/p/flask
Author: Armin Ronacher
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Classifier: Development Status :: 5 - Production/ Stable
Flask
=====

Flask is a lightweight `WSGI`_ web application framework. It is designed to make getting started quick and easy, with the ability to scale up to complex applications. It began as a simple wrapper around `Werkzeug`_ and `Jinja`_ and has become one of the most popular Python web application frameworks.

Flask offers suggestions, but doesn't enforce any dependencies or project layout. It is up to the developer to choose the tools and libraries they want to use. There are many extensions provided by the community that make adding new functionality easy.

.. _WSGI: https://wsgi.readthedocs.io/
.. _Werkzeug: https://werkzeug.palletsprojects.com/
.. _Jinja: https://jinja.palletsprojects.com/

Installing
---------

Install and update using `pip`_:

.. code-block:: text

    $ pip install -U Flask


A Simple Example
.. code-block:: python

    # save this as app.py
    from flask import Flask

    app = Flask(__name__)

    @app.route("/")
    def hello():
        return "Hello, World!"

.. code-block:: text

    $ flask run
    * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

Contributing
------------

For guidance on setting up a development environment and how to make a contribution to Flask, see the `contributing guidelines`_.

.. _contributing guidelines: https://github.com/pallets/flask/blob/main/CONTRIBUTING.rst

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[metadata]
name = Flask
version = attr: flask.__version__
url = https://palletsprojects.com/p/flask
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://flask.palletsprojects.com/
  Changes = https://flask.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/flask/
  Issue Tracker = https://github.com/pallets/flask/issues/
  Twitter = https://twitter.com/PalletsTeam
  Chat = https://discord.gg/pallets
license = BSD-3-Clause
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A simple framework for building complex web applications.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
  Development Status :: 5 - Production/Stable
  Environment :: Web Environment
  Framework :: Flask
  Intended Audience :: Developers
  License :: OSI Approved :: BSD License
Operating System :: OS Independent
Programming Language :: Python
Topic :: Internet :: WWW/HTTP :: Dynamic Content
Topic :: Internet :: WWW/HTTP :: WSGI
Topic :: Internet :: WWW/HTTP :: WSGI :: Application
Topic :: Software Development :: Libraries :: Application Frameworks

[options]
packages = find:
package_dir = src
include_package_data = True
python_requires = >= 3.7

[options.packages.find]
where = src

[options.entry_points]
console_scripts =
flask = flask.cli:main

[tool:pytest]
testpaths = tests
filterwarnings =
error

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

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

[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E402
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/flask/__init__.py: F401
Flask leverages Jinja2 as its template engine. You are obviously free to use

Flask Extension Development

================================
Flask, being a microframework, often requires some repetitive steps to get a third party library working. Many such extensions are already available on `PyPI`.

If you want to create your own Flask extension for something that does not exist yet, this guide to extension development will help you get your extension running in no time and to feel like users would expect your extension to behave.

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

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

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

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

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

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

"Hello Flaskext!"

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

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

First we create the following folder structure::
Here's the contents of the most important files:

**setup.py**
```````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````
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That's a lot of code but you can really just copy/paste that from existing extensions and adapt.

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

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

Initializing Extensions
-----------------------

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

Quite simple: you pass it to it.

There are two recommended ways for an extension to initialize:

initialization functions:

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

classes:

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

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

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

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

Here’s the contents of the `flask_sqlite3.py` for copy/paste:

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

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

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

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

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

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

So here’s what these lines of code do:

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

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

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

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

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

You can then use the database from views like this::

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

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

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

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

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

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

Keep in mind that supporting this factory pattern for creating apps is required for approved flask extensions (described below).
As you noticed, `init_app` does not assign `app` to `self`. This is intentional! Class based Flask extensions must only store the application on the object when the application was passed to the constructor. This tells the extension: I am not interested in using multiple applications.

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

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

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

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

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

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

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

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

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

0. An approved Flask extension requires a maintainer. In the event an
extension author would like to move beyond the project, the project
should find a new maintainer and transfer access to the repository,
documentation, PyPI, and any other services. If no maintainer
is available, give access to the Pallets core team.
1. The naming scheme is *Flask-ExtensionName* or *ExtensionName-Flask*.
   It must provide exactly one package or module named
   ``flask_extension_name``.
2. The extension must be BSD or MIT licensed. It must be open source
   and publicly available.
3. The extension's API must have the following characteristics:
   - It must support multiple applications running in the same Python
     process. Use ``current_app`` instead of ``self.app``, store
     configuration and state per application instance.
   - It must be possible to use the factory pattern for creating
     applications. Use the ``ext.init_app()`` pattern.
4. From a clone of the repository, an extension with its dependencies
   must be installable with ``pip install -e .``.
5. It must ship a testing suite that can be invoked with ``tox -e py``
or ``pytest``. If not using ``tox``, the test dependencies should be
   specified in a ``requirements.txt`` file. The tests must be part of
   the sdist distribution.
6. The documentation must use the ``flask`` theme from the
   `Official Pallets Themes`_. A link to the documentation or project
   website must be in the PyPI metadata or the readme.
7. For maximum compatibility, the extension should support the same
   versions of Python that Flask supports. 3.7+ is recommended as of
   December 2021. Use ``python_requires=">= 3.7"`` in ``setup.py`` to
   indicate supported versions.

.. _PyPI: https://pypi.org/search/?c=Framework+%3A%3A+Flask
.. _mailinglist: https://mail.python.org/mailman/listinfo/flask
.. _Discord server: https://discord.gg/pallets
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.. currentmodule:: flask
Blog Blueprint
===============

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

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

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

Define the blueprint and register it in the application factory.

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

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

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

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

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

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

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

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

Index
-----

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

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

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

.. code-block:: html+jinja
   :caption: `flaskr/templates/blog/index.html`

```html
{% extends 'base.html' %}

{% block header %}<h1>{% block title %}Posts{% endblock %}</h1>{% endif %}

<% if g.user %>
    <a class="action" href="{{ url_for('blog.create') }}">New</a>
{% endif %}
```
When a user is logged in, the `header` block adds a link to the `create` view. When the user is the author of a post, they'll see an "Edit" link to the `update` view for that post. `loop.last` is a special variable available inside `Jinja for loops`. It's used to display a line after each post except the last one, to visually separate them.

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

Create
-----

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

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

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

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

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

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

    return render_template('blog/create.html')

.. code-block:: html+jinja

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

    {% extends 'base.html' %}

    {% block header %}
<br>h1>{{ block title | safe }}\nNew Post{{ endblock }}</h1>
    {% endblock %}

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

Update
------

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

```python
:caption:`flaskr/blog.py`
def get_post(id, check_author=True):
    post = get_db().execute('SELECT p.id, title, body, created, author_id, username
    FROM post p JOIN user u ON p.author_id = u.id
    WHERE p.id = ?;
    (id,)
    ).fetchone()

    if post is None:
        abort(404, f"Post id {id} doesn't exist.")

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

    return post
```

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

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

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

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

        if not title:
            error = 'Title is required.'
if error is not None:
    flash(error)
else:
    db = get_db()
    db.execute(
        'UPDATE post SET title = ?, body = ?
        WHERE id = ?,
        (title, body, id)
    )
    db.commit()
    return redirect(url_for('blog.index'))

    return render_template('blog/update.html', post=post)

Unlike the views you've written so far, the ``update`` function takes
an argument, ``id``. That corresponds to the ``<int:id>`` in the route.
A real URL will look like ``/1/update``. Flask will capture the ``1``,
ensure it's an :class:`int`, and pass it as the ``id`` argument. If you
don't specify ``int:`` and instead do ``<id>```, it will be a string.
To generate a URL to the update page, :func:`url_for` needs to be passed
the ``id`` so it knows what to fill in:
``url_for('blog.update', id=post['id'])``. This is also in the
``index.html`` file above.

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

.. code-block:: html+jinja

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

{% extends 'base.html' %}

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

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

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

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

Delete
======

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

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

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

Continue to :doc:`install`.

Found in path(s):
1.619 juju-loggo 0.0.0-20210728185423-eebad3a902c4

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1.620 pygobject 3.36.0

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Version 2.1, February 1999

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1.626 x-sys 0.0.0-20210823070655-63515b42dcdf

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1.627 cracklib 2.9.6-3.2

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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.

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library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

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

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--------
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
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[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=

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=
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.=

thus LGPL-2.1 enters to fill this void.
=mike

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
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> 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.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
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:
> > 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.
> >
> > I am sympathetic. Guys, what do you reckon?
>>
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > 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.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

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:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now?
>>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

--------------------------
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.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
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

1.628 ptyprocess 0.6.0-1ubuntu1
1.628.1 Available under license:

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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Library
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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

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

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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1.656 simplejson 3.16.0-2ubuntu2

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1.657 glew 1.5.4-1

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Mesa 3-D graphics library
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1.658 gopkg.in-yaml 2.3.0

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#### 1.666 libgpg-error 1.37 1

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1.668 secureboot-db 1.6~20.04.1

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1.669 python3-service-identity 18.1.0-5build1

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1.670 swagger-ui-bundle 0.0.9

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
  * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
  *
  * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
  * http://www.hypermall.com/
  * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
  * interrupts us (except possibly for removal/insertion of the cable?)
  * 10/4/97 - began heavy inline documentation of the code. Corrected typos
  * and spelling mistakes.
  * 10/5/97 - added code to handle PHY interrupts, disable PHY on
  * loss of link, and correctly re-enable PHY when link is
  * re-established. (put back CFG_PHYIE)
  *
  * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
  *
  * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
  *
  * Linux driver for the IDT77201 NICStAR PCI ATM controller.
  * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
  * see init_nicstar() for PHY initialization to change this. This driver
  * expects the Linux ATM stack to support scatter-gather lists
  * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
  *
  * Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
  * 1) skb->destructor / skb->atm.recycle_buffer
  *    combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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*
* M. Welsh, 6 July 1996
*
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Appendix: How to Apply These Terms to Your New Programs

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<signature of Ty Coon>, 1 April 1989
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.683 ubuntu-advantage-tools 27.8
1.683.1 Available under license:
Feature: License check timer only runs in environments where necessary

@series.lts
@uses.config.contract_token
@uses.config.machine_type.gcp.generic

Scenario Outline: license_check job should run periodically on gcp generic lts
  Given a `<release>` machine with ubuntu-advantage-tools installed
  # verify its enabled
  Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
  # run it and verify that it didn't disable itself
  When I run `systemctl start ua-license-check.service` with sudo
  When I wait `5` seconds
  Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
  # verify attach disables it
  When I wait `5` seconds
  When I attach `contract_token` with sudo
  Then I verify the `ua-license-check` systemd timer is disabled
  # verify detach enables it
  When I run `ua detach --assume-yes` with sudo
  And I wait `5` seconds
  Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
  # verify stopping and deleting marker file and stopping disables it
  # We need to call stop both before and after rm-ing the marker file
  # because at least one version of systemd requires it before (245.4-4ubuntu3.11
  # on focal gcp), and every other tested version of systemd requires it after
  # But this is only necessary when manually running the steps or in this test.
  # `disable_licenseChecks_if_applicable` works fine with only calling stop after,
  # as evidenced by the "verify attach disables it" steps above passing on focal gcp.
  When I run `systemctl stop ua-license-check.timer` with sudo
  When I run `rm /var/lib/ubuntu-advantage/marker-license-check` with sudo
  When I run `systemctl stop ua-license-check.timer` with sudo
  Then I verify the `ua-license-check` systemd timer is disabled
  # verify creating marker file enables it
  When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
  Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
Examples: version
| release |
| xenial |
| bionic |
| focal |
| jammy |

@series.impish
@uses.config.contract_token
@uses.config.machine_type.gcp.generic

Scenario Outline: license_check is disabled gcp generic non lts
  Given a `<release>` machine with ubuntu-advantage-tools installed
Then I verify the `ua-license-check` systemd timer is disabled

# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage/ marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes

When I run `systemctl start ua-license-check.service` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled

# verify attach and detach does not enable it
When I wait `5` seconds
When I attach `contract_token` with sudo
When I run `ua detach --assume-yes` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled

Examples: version

<table>
<thead>
<tr>
<th>release</th>
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<tbody>
<tr>
<td>impish</td>
</tr>
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@series.all
@uses.config.contract_token
@uses.config.machine_type.lxd.container
@uses.config.machine_type.lxd.vm
@uses.config.machine_type.aws.generic
@uses.config.machine_type.azure.generic

Scenario Outline: license_check is disabled everywhere but gcp generic

Given a `<release>` machine with ubuntu-advantage-tools installed
Then I verify the `ua-license-check` systemd timer is disabled
When I reboot the `<release>` machine
Then I verify the `ua-license-check` systemd timer is disabled

# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage/ marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes

When I run `systemctl start ua-license-check.service` with sudo
When I wait `5` seconds
And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage-license-check.log` `with sudo` exits `0`
And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage.log` `with sudo` exits `1`
Then I verify the `ua-license-check` systemd timer is disabled

# verify attach and detach does not enable it
When I wait `5` seconds
When I attach `contract_token` with sudo
When I run `ua detach --assume-yes` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled

Examples: version

| release |

| --- |
@series.lts
@uses.config.machine_type.aws.pro
@uses.config.machine_type.azure.pro
@uses.config.machine_type.gcp.pro

Scenario Outline: license_check is disabled everywhere but gcp generic
    Given a `<release>` machine with ubuntu-advantage-tools installed
    When I create the file `/etc/ubuntu-advantage/uaclient.conf` with the following:
    ""
    contract_url: 'https://contracts.canonical.com'
data_dir: /var/lib/ubuntu-advantage
log_level: debug
log_file: /var/log/ubuntu-advantage.log
    ""
    When I run `ua auto-attach` with sudo
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify creating marker file enables it, but it disables itself
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes
    When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is disabled

Examples: version
    | release |
    | xenial  |
    | bionic  |
    | focal   |
    | impish  |
    | jammy   |

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Version 3, 29 June 2007

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The precise terms and conditions for copying, distribution and modification follow.

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

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# This timer is only activated when on a GCP Ubuntu LTS instance that is not already using Ubuntu Advantage services (via ua-license-check.path).
# This timer triggers a service that will poll the metadata for a GCP instance.
# If the user has added an Ubuntu Pro license to the instance, it will activate Ubuntu Advantage services.
[Unit]
Description=Timer to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Timer]
OnCalendar=*/0/5
RandomizedDelaySec=5min
OnStartupSec=2min
Files: *
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# that is not already using Ubuntu Advantage services.
# This path triggers a timer that will periodically poll the metadata for a GCP
# instance. If the user has added an Ubuntu Pro license to the instance, it will
# activate Ubuntu Advantage services.
[Unit]
Description=Trigger to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Path]
PathExists=/var/lib/ubuntu-advantage/marker-license-check
Unit=ua-license-check.timer

[Install]
WantedBy=multi-user.target
# This service is only activated when on a GCP Ubuntu LTS instance that is not
# already using Ubuntu Advantage services (via ua-license-check.timer).
# This service polls the metadata for a GCP instance. If the user has added an
# Ubuntu Pro license to the instance, it will activate Ubuntu Advantage services.
[Unit]
Description=Poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)
After=network.target network-online.target systemd-networkd.service ua-auto-attach.service

[Service]
Type=oneshot
ExecStart=/usr/bin/python3 /usr/lib/ubuntu-advantage/license_check.py
1.684 python-aiohttp 3.6.2-1build1

1.684.1 Available under license:

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1.685 python-idna 2.8-1

1.685.1 Available under license:

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Metadata-Version: 1.2
Name: idna
Version: 2.8
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)


This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:

```
.. code-block:: python
```
# Python 3
>>> import idna
>>> idna.encode('•')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

# Python 2
>>> import idna
>>> idna.encode(u'•')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.

Packages
--------

The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna

Installation
------------

To install this library, you can use pip:

.. code-block:: bash

   $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

   $ python setup.py install

This library works with Python 2.7 and Python 3.4 or later.

Usage
-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.
You may use the codec encoding and decoding methods using the `idna.codec` module:

```python
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
'xn--80ahd1agd.xn--80akhbyknj4f'
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```python
# Python 2
>>> idna.alabel(u'')
'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)
-------------------------------

As described in RFC 5895, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing`, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.
Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility
++++++++++++++++++++++++++++++++
Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

Exceptions
---------
All errors raised during the conversion following the specification should raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext``
when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics
------------------------

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script ``tools/idna-data``.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* ``idna-data make-libdata``. Generates ``idnadata.py`` and ``uts46data.py``, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the ``idnadata.py`` and ``uts46data.py`` files.

* ``idna-data make-table``. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <http://iana.org/>.

* ``idna-data U+0061``. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using ``idna-data -h``. Most notably, the ``--version`` argument allows the specification of the version of Unicode to use in computing the table data. For example, ``idna-data --version 9.0.0 make-libdata`` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing
-------

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Topic :: Internet :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Utilities
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):
* /opt/cola/permits/1125694287_1611438034.13/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/PKG-INFO
* /opt/cola/permits/1125694287_1611438034.13/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO

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-------

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

import io, sys
from setuptools import setup

def main():

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

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

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',]
Intended Audience :: System Administrators,
License :: OSI Approved :: BSD License,
Operating System :: OS Independent,
Programming Language :: Python,
Programming Language :: Python :: 2,
Programming Language :: Python :: 2.7,
Programming Language :: Python :: 3,
Programming Language :: Python :: 3.4,
Programming Language :: Python :: 3.5,
Programming Language :: Python :: 3.6,
Topic :: Internet :: Name Service (DNS),
Topic :: Software Development :: Libraries :: Python Modules,
Topic :: Utilities,
]
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1125694287_1611438034.13/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/setup.py

1.686 libksba 1.3.5 2
1.686.1 Available under license:

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Version 3, 29 June 2007

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1.695 click 8.1.3
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.. _contrib:

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

click-contrib

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

As the userbase of Click grows, more and more major feature requests pop up in Click’s bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

Found in path(s):
* /opt/cola/permits/1318172402_1651721571.72/0/click-8.1.3-tar-gz/click-8.1.3/docs/contrib.rst

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Metadata-Version: 2.1
Name: click
Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

--------

Install and update using `pip`:
.. code-block:: text

$ pip install -U click


A Simple Example
----------------

.. code-block:: python

```python
import click

@click.command()
@click.option("--count", default=1, help="Number of greetings.")
@click.option("--name", prompt="Your name", help="The person to greet.")
def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times."""
    for _ in range(count):
        click.echo(f"Hello, {name}!")

if __name__ == '__main__':
    hello()
```

.. code-block:: text

$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!

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------

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

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Links
-----
- Documentation: https://click.palletsprojects.com/
- Changes: https://click.palletsprojects.com/changes/
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* /opt/cola/permits/1318172402_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/src/click.egg-info/PKG-INFO
* /opt/cola/permits/1318172402_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/PKG-INFO

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[metadata]
name = click
version = attr: click.__version__
url = https://palletsprojects.com/p/click/
project_urls =
    Donate = https://palletsprojects.com/donate
    Documentation = https://click.palletsprojects.com/
    Changes = https://click.palletsprojects.com/changes/
    Source Code = https://github.com/pallets/click/
    Issue Tracker = https://github.com/pallets/click/issues/
    Twitter = https://twitter.com/PalletsTeam
    Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = Composable command line interface toolkit
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
    Development Status :: 5 - Production/Stable
    Intended Audience :: Developers
    License :: OSI Approved :: BSD License
    Operating System :: OS Independent
    Programming Language :: Python

[options]
packages = find:
    package_dir = = src
    include_package_data = True
python_requires = >= 3.7
[options.packages.find]
where = src

[tool:pytest]
testpaths = tests
filterwarnings = error

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

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

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

[mypy]
files = src/click
python_version = 3.7
show_error_codes = True
disable_subclassing_any = True
disable_untyped_calls = True
disable_untyped_defs = True
disable_incomplete_defs = True
check_untyped_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-colorama.*]
ignore_missing_imports = True

[mypy-importlib_metadata.*]
ignore_missing_imports = True

[egg_info]
tag_build =
tag_date = 0

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1.696.1 Available under license :

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If such an object file uses only numerical parameters, data
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with the Library, with the complete machine-readable "work that
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that the user who changes the contents of definitions files in the
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1.713 pycparser 2.21
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pycparser -- A C parser in Python

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1.715 libvirt-daemon-driver-qemu 6.0.0-0ubuntu8.16

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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.

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

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

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

c) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
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specified materials from the same place.

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For an executable, the required form of the "work that uses the
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1.722 iso-codes 4.4 1

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any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

   a) The modified work must itself be a software 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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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In addition, mere aggregation of another work not based on the Library
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License instead of this License to a given copy of the Library. To do
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subsequent copies and derivative works made from that copy.

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

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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c) Accompany the work with a written offer, valid for at
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1.723 netifaces 0.10.4
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Metadata-Version: 1.1
Name: netifaces
Version: 0.10.4
Summary: Portable network interface information.
Home-page: https://bitbucket.org/al45tair/netifaces
Author: Alastair Houghton
1. What is this?
-------

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?
-------

First you need to install it, which you can do by typing::

    tar xvzf netifaces-0.10.4.tar.gz
    cd netifaces-0.10.4
    python setup.py install

Once that's done, you'll need to start Python and do something like the following::

    >>> import netifaces

Then if you enter

    >>> netifaces.ifaddresses('lo0')

['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

    >>> netifaces.ifaddresses('lo0')

{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask':}...}
Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first:

```python
{ 18: [...], 2: [...], 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet addresses), and 30 is ``AF_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```python
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the ``AF_INET`` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are
regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```python
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement `SIOCGIFHWADDR`. Note also that you just get the address; it's unlikely that you'll see anything else with an `AF_LINK` address. Oh, and don't assume that all `AF_LINK` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```python
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)], 'default': { 2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0') }}
```

This dictionary is keyed on address family---in this case, `AF_INET`---and each entry is a list of gateways as `(address, interface, is_default)` tuples. Notice that here we have two separate gateways for IPv4 (`AF_INET`); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value `default`, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family;
this is currently very common for IPv6 and much less common for IPv4 but it can happen even for `"AF_INET``.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the `"gateways()`` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?

It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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5. Why the jump to 0.10.0?
Because someone released a fork of netifaces with the version 0.9.0. Hopefully skipping the version number should remove any confusion. In addition starting with 0.10.0 Python 3 is now supported and other features/bugfixes have been included as well. See the CHANGELOG for a more complete list of changes.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
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netifaces 0.10.4
==========

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1. What is this?

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   python setup.py install

Once that's done, you'll need to start Python and do something like the following::

>>> import netifaces

Then if you enter

>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

{ 18: [...], 2: [...], 30: [...] }

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet addresses), and 30 is ``AF_INET6`` (IPv6).

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1.724 x-crypto 0.0.0-20200622213623-75b288015ac9
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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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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.

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If distribution of object code is made by offering access to copy
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compelled to copy the source along with the object code.

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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

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

6. As an exception to the Sections above, you may also compile or
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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
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
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1.733 pep517 0.8.2
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1.736 snapcore-go-gettext 0.0.0-20191107141714-82bbea49e785

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1.737 ncurses 6.2-0ubuntu2

1.737.1 Available under license:

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1.738 secretstorage 2.3.1

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1.739 isodate 0.6.1

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Metadata-Version: 2.1
Name: isodate
Version: 0.6.1
Summary: An ISO 8601 date/time/duration parser and formatter
Home-page: https://github.com/gweis/isodate/
Author: Gerhard Weis
Author-email: gerhard.weis@proclos.com
License: BSD
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
ISO 8601 date/time parser

This module implements ISO 8601 date, time and duration parsing. The implementation follows ISO8601:2004 standard, and implements only date/time representations mentioned in the standard. If something is not mentioned there, then it is treated as non existent, and not as an allowed option.

For instance, ISO8601:2004 never mentions 2 digit years. So, it is not intended by this module to support 2 digit years. (while it may still be valid as ISO date, because it is not explicitly forbidden.) Another example is, when no time zone information is given for a time, then it should be interpreted as local time, and not UTC.

As this module maps ISO 8601 dates/times to standard Python data types, like *date*, *time*, *datetime* and *timedelta*, it is not possible to convert all possible ISO 8601 dates/times. For instance, dates before 0001-01-01 are
not allowed by the Python *date* and *datetime* classes. Additionally fractional seconds are limited to microseconds. That means if the parser finds for instance nanoseconds it will round it to microseconds.

Documentation
--------------

Currently there are four parsing methods available.

* parse_time:
  parses an ISO 8601 time string into a *time* object
* parse_date:
  parses an ISO 8601 date string into a *date* object
* parse_datetime:
  parses an ISO 8601 date-time string into a *datetime* object
* parse_duration:
  parses an ISO 8601 duration string into a *timedelta* or *Duration* object.
* parse_tzinfo:
  parses the time zone info part of an ISO 8601 string into a *tzinfo* object.

As ISO 8601 allows to define durations in years and months, and *timedelta* does not handle years and months, this module provides a *Duration* class, which can be used almost like a *timedelta* object (with some limitations). However, a *Duration* object can be converted into a *timedelta* object.

There are also ISO formatting methods for all supported data types. Each *
*xxx_isoformat* method accepts a format parameter. The default format is always the ISO 8601 expanded format. This is the same format used by *
datetime.isoformat*:

* time_isoformat:
  Intended to create ISO time strings with default format
  *hh:mm:ssZ*.
* date_isoformat:
  Intended to create ISO date strings with default format
  *yyyy-mm-dd*.
* datetime_isoformat:
  Intended to create ISO date-time strings with default format
  *yyyy-mm-ddThh:mm:ssZ*.
* duration_isoformat:
  Intended to create ISO duration strings with default format
  *PnnYnnMnnDTnnHnnMnnS*.
* tz_isoformat:
  Intended to create ISO time zone strings with default format
  *hh:mm*.
* strftime:
  A re-implementation mostly compatible with Python's *
strftime*, but
supports only those format strings, which can also be used for dates prior 1900. This method also understands how to format *datetime* and *Duration* instances.

Installation:
-------------

This module can easily be installed with Python standard installation methods.

Either use *python setup.py install* or in case you have *setuptools* or *distribute* available, you can also use *easy_install*.

Limitations:
------------

* The parser accepts several date/time representation which should be invalid according to ISO 8601 standard.

1. for date and time together, this parser accepts a mixture of basic and extended format. e.g. the date could be in basic format, while the time is accepted in extended format.
   It also allows short dates and times in date-time strings.
2. For incomplete dates, the first day is chosen. e.g. 19th century results in a date of 1901-01-01.
3. negative *Duration* and *timedelta* value are not fully supported yet.

Further information:
---------------------

The doc strings and unit tests should provide rather detailed information about the methods and their limitations.

The source release provides a *setup.py* script, which can be used to run the unit tests included.

Source code is available at `<http://github.com/gweis/isodate>`.

CHANGES
=======

0.6.1 (2021-12-13)
------------------

- support python 3.10 ()
- last version to support py 2.7

0.6.0 (2017-10-13)
------------------
- support incomplete month date (Fabien Loffredo)
- rely on duck typing when doing duration maths
- support ':' as separator in fractional time zones (usrenmae)

0.5.4 (2015-08-06)
--------------

- Fix parsing of Periods (Fabien Bochu)
- Make Duration objects hashable (Geoffrey Fairchild)
- Add multiplication to duration (Reinoud Elhorst)

0.5.1 (2014-11-07)
--------------

- fixed pickling of Duration objects
- raise ISO8601Error when there is no 'T' separator in datetime strings (Adrian Coveney)

0.5.0 (2014-02-23)
--------------

- ISO8601Error are subclasses of ValueError now (Michael Hrivnak)
- improve compatibility across various python variants and versions
- raise exceptions when using fractional years and months in date maths with durations
- renamed method todatetime on Duration objects to timedelta

0.4.9 (2012-10-30)
--------------

- support pickling FixedOffset instances
- make sure parsed fractional seconds are in microseconds
- add leading zeros when formatting microseconds (Jarom Loveridge)

0.4.8 (2012-05-04)
--------------

- fixed incompatibility of unitests with python 2.5 and 2.6 (runs fine on 2.7 and 3.2)

0.4.7 (2012-01-26)
--------------
- fixed tzinfo formatting (never pass None into tzinfo.utcoffset())

0.4.6 (2012-01-06)
------------------
- added Python 3 compatibility via 2to3

0.4.5 (2012-01-06)
------------------
- made setuptools dependency optional

0.4.4 (2011-04-16)
------------------
- Fixed formatting of microseconds for datetime objects

0.4.3 (2010-10-29)
------------------
- Fixed problem with %P formating and fractions (supplied by David Brooks)

0.4.2 (2010-10-28)
------------------
- Implemented unary - for Duration (supplied by David Brooks)
- Output fractional seconds with '%P' format. (partly supplied by David Brooks)

0.4.1 (2010-10-13)
------------------
- fixed bug in comparison between timedelta and Duration.
- fixed precision problem with microseconds (reported by Tommi Virtanen)

0.4.0 (2009-02-09)
------------------
- added method to parse ISO 8601 time zone strings
- added methods to create ISO 8601 conforming strings

0.3.0 (2009-1-05)
------------------
- Initial release

TODOs
This to do list contains some thoughts and ideas about missing features, and parts to think about, whether to implement them or not. This list is probably not complete.

Missing features:
-----------------

* time formating does not allow to create fractional representations.
* parser for ISO intervals.
* currently microseconds are always padded to a length of 6 characters.
  trailing 0s should be optional

Documentation:
---------------

* parse_datetime:
  - complete documentation to show what this function allows, but ISO forbids.
    and vice verse.
  - support other separators between date and time than 'T'

* parse_date:
  - yeardigits should be always greater than 4
  - dates before 0001-01-01 are not supported

* parse_duration:
  - alternative formats are not fully supported due to parse_date restrictions
  - standard duration format is fully supported but not very restrictive.

* Duration:
  - support fractional years and month in calculations
  - implement w3c order relation? (' <http://www.w3.org/TR/xmlschema-2/#duration-order>`_)
  - refactor to have duration mathematics only at one place.
  - localize __str__ method (does timedelta do this?)
  - when is a Duration negative?
  - normalize Durations. months [00-12] and years [-inf,+inf]

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* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
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* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c

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Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for 'replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no `&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

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  */
"$Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
Found in path(s):
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* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
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$Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
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* @(#)bitstring.h 5.2 (Berkeley) 4/4/90
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" */
"
Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of ‘cron’ that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for ‘at’; you can continue to run ‘atrun’ from the crontab as you have been doing. If you don’t have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files “allow” and “deny” in /var/cron can be used to control access to the “crontab” command (which installs crontabs). It hasn’t been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
killed your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib[(crontab,crontab.local)]
(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into ranges with steps -- basically, this step is as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your changes.
if you like it, change your /etc/(rc,rc.local) to use it instead of the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

Found in path(s):
  * /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/README

1.744 plymouth 0.9.4git20200323-0ubuntu6.2

1.744.1 Available under license:

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1.745 liburcu6 0.11.1-2
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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the
userspace RCU library in a patch submitted on May 8, 2009 from Paul E.
McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and
barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his
patch in an email dated May 13, 2009 :

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel
and powerpc. They are MIT-licensed and therefore usable in LGPL code.
This cmpxchg code was obtained from the atomic_ops project:
http://www.hpl.hp.com/research/linux/atomic.ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

## 1.746 mpfr 4.0.2 1

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1.749 cephfs 2.0.0

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---

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

### Install Tar

Copy requires that *tar* be installed in the container image.

---

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:/path`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

---

## Remote to Local

Copy a remote file from a Pod to a local file.
- Local file format is `path`
- Remote file format is `<pod-name>:path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `namespace`.

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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Go support for Protocol Buffers - Google's data interchange format

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

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import (  
    "testing"
)

func TestRegisterLicense(t *testing.T) {  
    initial := len(licenses)  
    RegisterLicense("dummy")  
    if initial+1 != len(licenses) {  
        t.Fatal("didn't add a license")  
    }  
}
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/

// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

1.751 attrs 19.3.0

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1.752 cpp 9.3.0-1ubuntu2

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ruamel-yaml-clib 0.2.6

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certifi 2019.11.28

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

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The End

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# as the output of diff(1), diff -u or diff -c between the original and a
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#
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#
# This should contain the preferred addresses. Alternate addresses are in
# Porting/checkAUTHORS.pl.
#
# After editing, please run: make test_porting

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src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
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  - `doc/meintro.me`
  - `doc/meintro_fr.me`
  - `doc/meref.me`

Hyphenation Patterns
---------------------

- The file `tmac/hyphen.us` is identical to the file `hyphen.tex`, part of
  the TeX system written by Donald E. Knuth; the master file can be found
  at

  ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

  It has been renamed for consistency, i.e., to make patterns available
  under the filenames `hyphen.<language>`, e.g. `hyphen.de` or
  `hyphen.uk`.

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- The file `tmac/hyphen.fr` contains the same patterns as the file
  `frhyph.tex` (for TeX), which can be found at

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- The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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- The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyph-x-2017-03-31.pat' and `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

  http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl

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- The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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>>> freebsd-base64-4.8
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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> unicode-5.0

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1.780 juju-webbrowser 1.0.0

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1.781 update-manager 20.04.10.10

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This package was debianized by Michiel Sikkes <michiel@eyesopened.nl> on Mon, 25 Oct 2004 21:49:07 +0200.

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### 1.783 e2fsprogs 1.45.5 2ubuntu1

#### 1.783.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o `<tytso@mit.edu>` and Remy Card `<card@masi.ibp.fr>`.

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

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```
# This is a Makefile stub which handles the creation of BSD shared libraries.
```
In order to use this stub, the following makefile variables must be defined.

all:: image

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

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

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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

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
-
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Theodore Ts'o
23-June-2007

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

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

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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:
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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>,
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Gadi Oxman, August 1995

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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

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

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

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1.799 typing 4.2.0

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.800.1 Available under license:

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

[options]
packages = find:
  package_dir = = src
  include_package_data = True
  python_requires = >= 3.7

[options.packages.find]
where = src

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

[tool:pytest]
```

Open Source Used In Cisco Modeling Labs 2.4  7876
```python
testpaths = tests
filterwarnings = error
ignore:The loop argument:DeprecationWarning:asyncio[...].base_events:542

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

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

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

[mypy]
files = src/jinja2
python_version = 3.7
show_error_codes = True
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-jinja2.defaults]
no_implicit_reexport = False
```
[mypy-markupsafe]
no_implicit_reexport = False

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1318182303_1651721512.71/0/jinja2-3-1-2-tar-gz/Jinja2-3.1.2/setup.cfg
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: Jinja2
Version: 3.1.2
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Changes, https://jinja.palletsprojects.com/changes/
Project-URL: Twitter, https://twitter.com/PalletsTeam
Project-URL: Chat, https://discord.gg/pallets
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/ Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/ HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.7
Description-Content-Type: text/x-rst
Provides-Extra: i18n
License-File: LICENSE.rst

Jinja
=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.
It includes:

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

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

Installing
---------

Install and update using `pip`:

```
$ pip install -U Jinja2
```


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

```
{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
{% for user in users %}
<li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}
```
The Pallets organization develops and supports Jinja and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`.

.. _please donate today: https://palletsprojects.com/donate

Links
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- Documentation: https://jinja.palletsprojects.com/
- Changes: https://jinja.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/Jinja2/
- Source Code: https://github.com/pallets/jinja/
- Issue Tracker: https://github.com/pallets/jinja/issues/
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use gio_sys;
use glib;
use glib::object::Cast;
use glib::object::IsA;
use glib::signal::connect_raw;
use glib::signal::SignalHandlerId;
use glib::translate::*;
use glib_sys;
use gobject_sys;
use std::boxed::Box as Box_
use std::fmt;
use std::mem::transmute;
use std::pin::Pin;
use std::ptr;
use Cancellable;

glib_wrapper! {
    pub struct Permission(Object<gio_sys::GPermission, gio_sys::GPermissionClass, PermissionClass>);

    match fn {
        get_type => || gio_sys::g_permission_get_type(),
    }
}

pub const NONE_PERMISSION: Option<&Permission> = None;

pub trait PermissionExt: 'static {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

    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>>;

    fn get_allowed(&self) -> bool;

    fn get_can_acquire(&self) -> bool;

    fn get_can_release(&self) -> bool;

    fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool);

    fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

    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>>;

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_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 _ = gio_sys::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<_source_object: *mut gobject_sys::GObject,
        res: *mut gio_sys::GAsyncResult,
        user_data: glib_sys::gpointer,
    >(,_source_object: *mut gio_sys::GObject,
        res: *mut gio_sys::GAsyncResult,
        user_data: glib_sys::gpointer,
    ) { unsafe {
        let mut error = ptr::null_mut();
        let _ = gio_sys::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 {
    gio_sys::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, send| {  
        let cancellable = Cancellable::new();  
        obj.acquire_async(Some(&cancellable), move |res| {  
            send.resolve(res);  
        });
        cancellable
    }))
}

fn get_allowed(&self) -> bool {  
    unsafe {
        unsafe {  
            from_glib(gio_sys::g_permission_get_allowed(  
                self.as_ref().to_glib_none().0,
            ))
        }
    }
}

fn get_can_acquire(&self) -> bool {  
    unsafe {
        unsafe {  
            from_glib(gio_sys::g_permission_get_can_acquire(  
                self.as_ref().to_glib_none().0,
            ))
        }
    }
}

fn get_can_release(&self) -> bool {  
    unsafe {
        unsafe {  
            from_glib(gio_sys::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 {
        gio_sys::g_permission_impl_update(  
            self.as_ref().to_glib_none().0,  
            allowed.to_glib(),  
            can_acquire.to_glib(),  
            can_release.to_glib(),  
        );
    }
}

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
    unsafe {
        let mut error = ptr::null_mut();
        let _ = gio_sys::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 gobject_sys::GObject,  
        res: *mut gio_sys::GAsyncResult,  
        user_data: glib_sys::gpointer,
    ) {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        }
    }
}
Err(from_glib_full(error))
};
let callback: Box<_Q> = Box::<Box<_>::from_raw(user_data as *mut _)>;
callback(result);
}
let callback = release_async_trampoline::<Q>;
unsafe {
    gio_sys::g_permission_release_async(
        self.as_ref().to_glib_none().0,
        cancellable.map(|p| p.as_ref()).to_glib_none().0,
        Some(callback),
        Box::<Box<_>::into_raw(user_data) as *mut _>);
}
fn release_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box::<Box<_>>::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.release_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });
        cancellable
    }));
}
fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_allowed_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }
    unsafe {
        let f: Box<_F> = Box::<Box<_>::new(f)>;
        connect_raw(
            self.as_ptr() as *mut _,
            b“notify::allowed0”.as_ptr() as *const _,
            Some(transmute(notify_allowed_trampoline::<Self, F> as usize)),
            Box::<Box<_>::into_raw(f),
        )
    }
}
```rust
fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId
where
P: IsA<Permission>,
{
    let f: &F = &*(f as *const F);
    f(&Permission::from_glib_borrow(this).unsafe_cast())
}
 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(notify_can_acquire_trampoline::<Self, F> as usize)),
        Box::<into_raw(f),
    )
}
}

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId
where
P: IsA<Permission>,
{
    let f: &F = &*(f as *const F);
    f(&Permission::from_glib_borrow(this).unsafe_cast())
}
 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(notify_can_release_trampoline::<Self, F> as usize)),
        Box::<into_raw(f),
    )
}
```
impl fmt::Display for Permission {
    fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
        write!(f, "Permission")
    }
}

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while
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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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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.

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1.806 autotools-dev 20180224.1

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1.807 contextlib2 0.6.0

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

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

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

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

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1.808 libproxy1v5 0.4.15-10ubuntu1.2

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

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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modification of the work for the customer's own use and reverse
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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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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.

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

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

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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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### 1.811 python-cffi 1.14.0-1build1

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1.824 sgml-data 2.0.11

1.824.1 Available under license:

This package was originally Debianized by Susan G. Kleinmann
<sgk@kleinmann.com> on Thu, 13 Feb 1997. Its maintenance had been handled by Adam Di Carlo <aph@debian.org> and now by Osamu Aoki <osamu@debian.org>.

* Catchall download location

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It was written by Dan Connolly <connolly@w3.org> and is maintained by Mark Gaither (markg@webtechs.com).

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The Internet Explorer DTD's are written by Mark Buckley <mbuckley@microsoft.com>, and is described at <URL:http://www.microsoft.com/workshop/author/ie3html/ie3dtd.asp>

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(last updated $Date: 1999/02/18 15:33:44$)

References

1. http://www.w3.org/
3. http://www.inria.fr/
5. http://www.w3.org/
Note that I received the following clarification from the W3C regarding their license.

From: "Joseph M. Reagle Jr. (W3C)" <reagle@w3.org>
Subject: Re: copyright question concerning published DTDs
To: Adam Di Carlo <adam@onshore.com>
Date: 22 Mar 1999 14:08:40 -0500
Replied: Mon, 22 Mar 1999 15:43:05 -0500
Replied: ""Joseph M. Reagle Jr. (W3C)" <reagle@w3.org> "
Return-Path: root@burrito.onshore.com
Received: from root by burrito.fake with local (Exim 2.05 #1 (Debian))
id 10PAD9-0002Yu-00; Mon, 22 Mar 1999 14:18:07 -0500
Received: from tux.w3.org (IDENT:root@tux.w3.org [18.29.0.27])
by queso.onshore.com (8.9.2/8.9.1/Debian/GNU) with ESMTP id NAA00675
for <adam@onshore.com>; Mon, 22 Mar 1999 13:08:43 -0600 (EST)
Received: from policy (root@localhost [127.0.0.1])
by tux.w3.org (8.8.7/8.8.7) with SMTP id OAA11727
for <adam@onshore.com>; Mon, 22 Mar 1999 14:08:41 -0500
Message-Id: <3.0.5.32.19990322140840.00a36100@localhost>
X-Sender: reagle@localhost
X-Mailer: QUALCOMM Windows Eudora Pro Version 3.0.5 (32)
In-Reply-To: <E10P8rg-0002Nx-00@burrito.fake>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-UIDL: 825580178c326d3a9d02a165e429e532
Sender: root <root@burrito.onshore.com>

At 12:51 PM 3/22/99 -0500, Adam Di Carlo wrote:
> Hello. I have the responsibility of assessing the current copyright
> of W3C DTDs accompanying your specifications, on behalf of the Debian
> project <URL:http://www.debian.org/>.

Interesting question Adam!

> I would think that the W3C is
> happy to allow derivative DTDs so long as they don't represent
> themselves as W3C standards? If so, would it be possible to get
> clarification about the licensing and rights granted for DTDs?

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1.828 libsub-override-perl 0.09-2
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# NAME

Sub::Override - Perl extension for easily overriding subroutines

# VERSION

0.09

# SYNOPSIS

use Sub::Override;

sub foo { 'original sub' };
print foo();  # prints 'original sub'

my $override = Sub::Override->new( foo => sub { 'overridden sub' } );
print foo();  # prints 'overridden sub'
$override->restore;
print foo();  # prints 'original sub'}
# DESCRIPTION

## The Problem

Sometimes subroutines need to be overridden. In fact, your author does this constantly for tests. Particularly when testing, using a Mock Object can be overkill when all you want to do is override one tiny, little function.

Overriding a subroutine is often done with syntax similar to the following.

```perl
{  
    local *Some::sub = sub {'some behavior'};
    # do something
}
# original subroutine behavior restored
```

This has a few problems.

```perl
{  
    local *Get::some_feild = { 'some behavior' };
    # do something
}
```

In the above example, not only have we probably misspelled the subroutine name, but even if their had been a subroutine with that name, we haven’t overridden it. These two bugs can be subtle to detect.

Further, if we're attempting to localize the effect by placing this code in a block, the entire construct is cumbersome.

Hook::LexWrap also allows us to override sub behavior, but I can never remember the exact syntax.

## An easier way to replace subroutines

Instead, `Sub::Override` allows the programmer to simply name the sub to replace and to supply a sub to replace it with.

```perl
my $override = Sub::Override->new('Some::sub', sub {'new data'});
```

# which is equivalent to:

```perl
my $override = Sub::Override->new;
$override->replace('Some::sub', sub { 'new data' });
```

You can replace multiple subroutines, if needed:

```perl
$override->replace('Some::sub1', sub { 'new data1' });
```
$override->replace('Some::sub2', sub { 'new data2' });
$override->replace('Some::sub3', sub { 'new data3' });

If replacing the subroutine succeeds, the object is returned. This allows the programmer to chain the calls, if this style of programming is preferred:

$override->replace('Some::sub1', sub { 'new data1' })
        ->replace('Some::sub2', sub { 'new data2' })
        ->replace('Some::sub3', sub { 'new data3' });

If the subroutine has a prototype, the new subroutine should be declared with same prototype as original one:

$override->replace('Some::sub_with_proto', sub ($$$) { ($_[0], $_[1]) });

A subroutine may be replaced as many times as desired. This is most useful when testing how code behaves with multiple conditions.

$override->replace('Some::thing', sub { 0 });
is($object->foo, 'wibble', 'wibble is returned if Some::thing is false');

$override->replace('Some::thing', sub { 1 });
is($object->foo, 'puppies', 'puppies are returned if Some::thing is true');

## Restoring subroutines

If the object falls out of scope, the original subs are restored. However, if you need to restore a subroutine early, just use the restore method:

my $override = Sub::Override->new('Some::sub', sub { 'new data' });
# do stuff
$override->restore;

Which is somewhat equivalent to:

{
    my $override = Sub::Override->new('Some::sub', sub { 'new data' });
    # do stuff
}

If you have override more than one subroutine with an override object, you will have to explicitly name the subroutine you wish to restore:

$override->restore('This::sub');

Note `restore()` will always restore the original behavior of the subroutine no matter how many times you have overridden it.
## Which package is the subroutine in?

Ordinarily, you want to fully qualify the subroutine by including the package name. However, failure to fully qualify the subroutine name will assume the current package.

```perl
package Foo;
use Sub::Override;
sub foo { 23 };
my $override = Sub::Override->new( foo => sub { 42 } ); # assumes Foo::foo
print foo(); # prints 42
$override->restore;
print foo(); # prints 23
```

## METHODS

### new

```perl
my $sub = Sub::Override->new;
my $sub = Sub::Override->new($sub_name, $sub_ref);
```

Creates a new `Sub::Override` instance. Optionally, you may override a subroutine while creating a new object.

### replace

```perl
$sub->replace($sub_name, $sub_body);
```

Temporarily replaces a subroutine with another subroutine. Returns the instance, so chaining the method is allowed:

```perl
$sub->replace($sub_name, $sub_body)
    ->replace($another_sub, $another_body);
```

This method will `croak` if the subroutine to be replaced does not exist.

### override

```perl
my $sub = Sub::Override->new;
$sub->override($sub_name, $sub_body);
```

`override` is an alternate name for `replace` - they are the same method.

### restore

```perl
$sub->restore($sub_name);
```

Restores the previous behavior of the subroutine. This will happen
automatically if the `Sub::Override` object falls out of scope.

# EXPORT

None by default.

# BUGS

Probably. Tell me about 'em.

# SEE ALSO

- Hook::LexWrap -- can also override subs, but with different capabilities
- Test::MockObject -- use this if you need to alter an entire class

# AUTHOR

Curtis "Ovid" Poe, `<ovid [at] cpan [dot] org>`

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abstract: 'Perl extension for easily overriding subroutines'
author:
- 'Curtis Poe <ovid@cpan.org>'
built_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.120630'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Sub::Override
no_index:
directory:
  - t
  - inc
requires:
  Test::Fatal: 0.010
  Test::More: 0.47
resources:
  repository: https://github.com/Ovid/sub-override
  version: 0.09

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=head1 NAME

Sub::Override - Perl extension for easily overriding subroutines

=head1 VERSION

0.09

=head1 SYNOPSIS

use Sub::Override;

sub foo { 'original sub' ;
  print foo(); # prints 'original sub'

  my $override = Sub::Override->new( foo => sub { 'overridden sub' } );
  print foo(); # prints 'overridden sub'
  $override->restore;
  print foo(); # prints 'original sub'

=head1 DESCRIPTION

=head2 The Problem

Sometimes subroutines need to be overridden. In fact, your author does this constantly for tests. Particularly when testing, using a Mock Object can be overkill when all you want to do is override one tiny, little function.

Overriding a subroutine is often done with syntax similar to the following.

{
local *Some::sub = sub {'some behavior'};
# do something
}
# original subroutine behavior restored

This has a few problems.

{
  local *Get::some_feild = { 'some behavior' };
  # do something
}

In the above example, not only have we probably misspelled the subroutine name, but even if their had been a subroutine with that name, we haven't overridden it. These two bugs can be subtle to detect.

Further, if we're attempting to localize the effect by placing this code in a block, the entire construct is cumbersome.

Hook::LexWrap also allows us to override sub behavior, but I can never remember the exact syntax.

=head2 An easier way to replace subroutines

Instead, C<Sub::Override> allows the programmer to simply name the sub to replace and to supply a sub to replace it with.

my $override = Sub::Override->new('Some::sub', sub { 'new data' });

# which is equivalent to:
my $override = Sub::Override->new;
$override->replace('Some::sub', sub { 'new data' });

You can replace multiple subroutines, if needed:

$override->replace('Some::sub1', sub { 'new data1' });
$override->replace('Some::sub2', sub { 'new data2' });
$override->replace('Some::sub3', sub { 'new data3' });

If replacing the subroutine succeeds, the object is returned. This allows the programmer to chain the calls, if this style of programming is preferred:

$override->replace('Some::sub1', sub { 'new data1' })
  ->replace('Some::sub2', sub { 'new data2' })
  ->replace('Some::sub3', sub { 'new data3' });

If the subroutine has a prototype, the new subroutine should be declared with same prototype as original one:
$override->replace('Some::sub_with_proto', sub ($$) { ($_[0], $_[1]) });

A subroutine may be replaced as many times as desired. This is most useful when testing how code behaves with multiple conditions.

$override->replace('Some::thing', sub { 0 });
is($object->foo, 'wibble', 'wibble is returned if Some::thing is false');

$override->replace('Some::thing', sub { 1 });
is($object->foo, 'puppies', 'puppies are returned if Some::thing is true');

=head2 Restoring subroutines

If the object falls out of scope, the original subs are restored. However, if you need to restore a subroutine early, just use the restore method:

my $override = Sub::Override->new('Some::sub', sub {'new data'});
# do stuff
$override->restore;

Which is somewhat equivalent to:

{
    my $override = Sub::Override->new('Some::sub', sub {'new data'});
    # do stuff
}

If you have override more than one subroutine with an override object, you will have to explicitly name the subroutine you wish to restore:

$override->restore('This::sub');

Note C<restore()> will always restore the original behavior of the subroutine no matter how many times you have overridden it.

=head2 Which package is the subroutine in?

Ordinarily, you want to fully qualify the subroutine by including the package name. However, failure to fully qualify the subroutine name will assume the current package.

package Foo;
use Sub::Override;
sub foo { 23 };
my $override = Sub::Override->new( foo => sub { 42 } ); # assumes Foo::foo
print foo(); # prints 42
$override->restore;
print foo(); # prints 23

=head1 METHODS

=head2 new

    my $sub = Sub::Override->new;
    my $sub = Sub::Override->new($sub_name, $sub_ref);

Creates a new C<Sub::Override> instance. Optionally, you may override a subroutine while creating a new object.

=head2 replace

    $sub->replace($sub_name, $sub_body);

Temporarily replaces a subroutine with another subroutine. Returns the instance, so chaining the method is allowed:

    $sub->replace($sub_name, $sub_body)
        ->replace($another_sub, $another_body);

This method will C<croak> is the subroutine to be replaced does not exist.

=head2 override

    my $sub = Sub::Override->new;
    $sub->override($sub_name, $sub_body);

C<override> is an alternate name for C<replace>. They are the same method.

=cut

=head2 restore

    $sub->restore($sub_name);

Restores the previous behavior of the subroutine. This will happen automatically if the C<Sub::Override> object falls out of scope.

=cut

=head1 EXPORT

None by default.

=head1 BUGS
Probably. Tell me about ‘em.

=head1 SEE ALSO

=over 4

=item *
Hook::LexWrap -- can also override subs, but with different capabilities

=item *
Test::MockObject -- use this if you need to alter an entire class

=back

=head1 AUTHOR

Curtis "Ovid" Poe, C<< <ovid [at] cpan [dot] org> >>

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INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install
DEPENDENCIES

This module requires these other modules and libraries:

None

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Found in path(s):
  * /opt/cola/permits/1256167561_1642653092.25/0/libsub-override-perl-0-09-orig-tar-gz/Sub-Override-0.09/README

1.829 user-setup 1.63ubuntu6

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1.830 brotli 1.0.7-6ubuntu0.1

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1.831 systemd 245.4-4ubuntu3.16

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=head1 NAME
HTML::Parser - HTML parser class

=head1 SYNOPSIS
use HTML::Parser ();

# Create parser object
$p = HTML::Parser->new( api_version => 3,
    start_h => [\&start, "tagname, attr"],
    end_h   => [\&end,  "tagname"],
    marked_sections => 1,
);

# Parse document text chunk by chunk
$p->parse($chunk1);
$p->parse($chunk2);
#...
$p->eof;  # signal end of document

# Parse directly from file
$p->parse_file("foo.html");
# or
open(my $fh, "<:utf8", "foo.html") || die;
$p->parse_file($fh);

=head1 DESCRIPTION
Objects of the \texttt{HTML::Parser} class will recognize markup and separate it from plain text (alias data content) in HTML documents. As different kinds of markup and text are recognized, the corresponding event handlers are invoked.

\texttt{HTML::Parser} is not a generic SGML parser. We have tried to make it able to deal with the HTML that is actually "out there", and it normally parses as closely as possible to the way the popular web browsers do it instead of strictly following one of the many HTML specifications from W3C. Where there is disagreement, there is often an option that you can enable to get the official behaviour.

The document to be parsed may be supplied in arbitrary chunks. This makes on-the-fly parsing as documents are received from the network possible.

If event driven parsing does not feel right for your application, you might want to use \texttt{HTML::PullParser}. This is an \texttt{HTML::Parser} subclass that allows a more conventional program structure.

=head1 METHODS

The following method is used to construct a new \texttt{HTML::Parser} object:

=over

=item $p = HTML::Parser->new( %options_and_handlers )

This class method creates a new \texttt{HTML::Parser} object and returns it. Key/value argument pairs may be provided to assign event handlers or initialize parser options. The handlers and parser options can also be set or modified later by the method calls described below.

If a top level key is in the form "\texttt{<event>_h}" (e.g., "text_h") then it assigns a handler to that event, otherwise it initializes a parser option. The event handler specification value must be an array reference. Multiple handlers may also be assigned with the 'handlers' => \texttt{[\%handlers]} option. See examples below.

If \texttt{new()} is called without any arguments, it will create a parser that uses callback methods compatible with version 2 of \texttt{HTML::Parser}. See the section on "version 2 compatibility" below for details.

The special constructor option 'api_version => 2' can be used to initialize version 2 callbacks while still setting other options and handlers. The 'api_version => 3' option can be used if you don't want
to set any options and don’t want to fall back to v2 compatible mode.

Examples:

```perl
$p = HTML::Parser->new(api_version => 3,
    text_h => [ sub {...}, "dtext" ]);;
```

This creates a new parser object with a text event handler subroutine that receives the original text with general entities decoded.

```perl
$p = HTML::Parser->new(api_version => 3,
    start_h => [ 'my_start', "self,tokens" ]);;
```

This creates a new parser object with a start event handler method that receives the $p and the tokens array.

```perl
$p = HTML::Parser->new(api_version => 3,
    handlers => { text => [\@array, "event,text"],
                     comment => [\@array, "event,text"],
                 });;
```

This creates a new parser object that stores the event type and the original text in @array for text and comment events.

=back

The following methods feed the HTML document to the C<HTML::Parser> object:

=over

=item $p->parse( $string )

Parse $string as the next chunk of the HTML document. Handlers invoked should not attempt to modify the $string in-place until $p->parse returns.

If an invoked event handler aborts parsing by calling $p->eof, then $p->parse() will return a FALSE value. Otherwise the return value is a reference to the parser object ($p).

=item $p->parse( $code_ref )

If a code reference is passed as the argument to be parsed, then the chunks to be parsed are obtained by invoking this function repeatedly. Parsing continues until the function returns an empty (or undefined) result. When this happens $p->eof is automatically signaled.
Parsing will also abort if one of the event handlers calls $p->eof.

The effect of this is the same as:

```perl
while (1) {
    my $chunk = &$code_ref();
    if (!defined($chunk) || !length($chunk)) {
        $p->eof;
        return $p;
    }
    $p->parse($chunk) || return undef;
}
```

But it is more efficient as this loop runs internally in XS code.

`=item $p->parse_file( $file )`

Parse text directly from a file. The $file argument can be a filename, an open file handle, or a reference to an open file handle.

If $file contains a filename and the file can't be opened, then the method returns an undefined value and $! tells why it failed. Otherwise the return value is a reference to the parser object.

If a file handle is passed as the $file argument, then the file will normally be read until EOF, but not closed.

If an invoked event handler aborts parsing by calling $p->eof, then $p->parse_file() may not have read the entire file.

On systems with multi-byte line terminators, the values passed for the offset and length argspecs may be too low if parse_file() is called on a file handle that is not in binary mode.

If a filename is passed in, then parse_file() will open the file in binary mode.

`=item $p->eof`

Signals the end of the HTML document. Calling the $p->eof method outside a handler callback will flush any remaining buffered text (which triggers the C<text> event if there is any remaining text).

Calling $p->eof inside a handler will terminate parsing at that point and cause $p->parse to return a FALSE value. This also terminates parsing by $p->parse_file().
After $p->eof has been called, the parse() and parse_file() methods can be invoked to feed new documents with the parser object.

The return value from eof() is a reference to the parser object.

=back

Most parser options are controlled by boolean attributes.
Each boolean attribute is enabled by calling the corresponding method with a TRUE argument and disabled with a FALSE argument. The attribute value is left unchanged if no argument is given. The return value from each method is the old attribute value.

Methods that can be used to get and/or set parser options are:

=over
=item $p->attr_encoded
=item $p->attr_encoded( $bool )

By default, the C<attr> and C:@attr> argspecs will have general entities for attribute values decoded. Enabling this attribute leaves entities alone.

=item $p->backquote
=item $p->backquote( $bool )

By default, only ' and “ are recognized as quote characters around attribute values. MSIE also recognizes backquotes for some reason. Enabling this attribute provides compatibility with this behaviour.

=item $p->boolean_attribute_value( $val )

This method sets the value reported for boolean attributes inside HTML start tags. By default, the name of the attribute is also used as its value. This affects the values reported for C<tokens> and C<attr> argspecs.

=item $p->case_sensitive
=item $p->case_sensitive( $bool )

By default, tagnames and attribute names are down-cased. Enabling this attribute leaves them as found in the HTML source document.
By default, "plaintext" element can never be closed. Everything up to the end of the document is parsed in CDATA mode. This historical behaviour is what at least MSIE does. Enabling this attribute makes closing "</plaintext>" tag effective and the parsing process will resume after seeing this tag. This emulates early gecko-based browsers.

By default, empty element tags are not recognized as such and the "/" before ">" is just treated like a normal name character (unless C<strict_names> is enabled). Enabling this attribute make C<HTML::Parser> recognize these tags.

Empty element tags look like start tags, but end with the character sequence "/>" instead of ">". When recognized by C<HTML::Parser> they cause an artificial end event in addition to the start event. The C<text> for the artificial end event will be empty and the C<tokenpos> array will be undefined even though the token array will have one element containing the tag name.

By default, section markings like <![CDATA[...]]> are treated like ordinary text. When this attribute is enabled section markings are honoured.

There are currently no events associated with the marked section markup, but the text can be returned as C<skipped_text>.

By default, comments are terminated by the first occurrence of "-->". This is the behaviour of most popular browsers (like Mozilla, Opera and MSIE), but it is not correct according to the official HTML standard. Officially, you need an even number of "--" tokens before the closing ">" is recognized and there may not be anything but whitespace between an even and an odd "--".
The official behaviour is enabled by enabling this attribute.

Enabling of 'strict_comment' also disables recognizing these forms as comments:

    </ comment>
    <! comment>

=item $p->strict_end
=item $p->strict_end( $bool )

By default, attributes and other junk are allowed to be present on end tags in a manner that emulates MSIE's behaviour.

The official behaviour is enabled with this attribute. If enabled, only whitespace is allowed between the tagname and the final ">".

=item $p->strict_names
=item $p->strict_names( $bool )

By default, almost anything is allowed in tag and attribute names. This is the behaviour of most popular browsers and allows us to parse some broken tags with invalid attribute values like:

    <IMG SRC=newprevlstGr.gif ALT=[PREV LIST] BORDER=0>

By default, "LIST]" is parsed as a boolean attribute, not as part of the ALT value as was clearly intended. This is also what Mozilla sees.

The official behaviour is enabled by enabling this attribute. If enabled, it will cause the tag above to be reported as text since "LIST]" is not a legal attribute name.

=item $p->unbroken_text
=item $p->unbroken_text( $bool )

By default, blocks of text are given to the text handler as soon as possible (but the parser takes care always to break text at a boundary between whitespace and non-whitespace so single words and entities can always be decoded safely). This might create breaks that make it hard to do transformations on the text. When this attribute is enabled, blocks of text are always reported in one piece. This will delay the text event until the following (non-text) event has been
recognized by the parser.

Note that the C-offset> argspec will give you the offset of the first segment of text and C-length> is the combined length of the segments. Since there might be ignored tags in between, these numbers can't be used to directly index in the original document file.

=item $p->utf8_mode

=item $p->utf8_mode( $bool )

Enable this option when parsing raw undecoded UTF-8. This tells the parser that the entities expanded for strings reported by C-attr>, C-@attr> and C-dtext> should be expanded as decoded UTF-8 so they end up compatible with the surrounding text.

If C-utf8_mode> is enabled then it is an error to pass strings containing characters with code above 255 to the parse() method, and the parse() method will croak if you try.

Example: The Unicode character "\x{2665}" is "\xE2\x99\xA5" when UTF-8 encoded. The character can also be represented by the entity "&hearts;" or "&#x2665". If we feed the parser:

$p->parse("\xE2\x99\xA5&hearts;" );

then C-dtext> will be reported as "\xE2\x99\xA5\x{2665}" without C-utf8_mode> enabled, but as "\xE2\x99\xA5\xE2\x99\xA5\xE2\x99\xA5" when enabled. The later string is what you want.

This option is only available with perl-5.8 or better.

=item $p->xml_mode

=item $p->xml_mode( $bool )

Enabling this attribute changes the parser to allow some XML constructs. This enables the behaviour controlled by individually by the C-case_sensitive>, C-empty_element_tags>, C-strict_names> and C-xml_pic> attributes and also suppresses special treatment of elements that are parsed as CDATA for HTML.

=item $p->xml_pic

=item $p->xml_pic( $bool )

By default, I-processing instructions> are terminated by ">". When this attribute is enabled, processing instructions are terminated by
As markup and text is recognized, handlers are invoked. The following method is used to set up handlers for different events:

This method assigns a subroutine, method, or array to handle an event.

Event is one of C<text>, C<start>, C<end>, C<declaration>, C<comment>, C<process>, C<start_document>, C<end_document> or C<default>.

The C<&subroutine> is a reference to a subroutine which is called to handle the event.

The C<$method_name> is the name of a method of $p which is called to handle the event.

The C@$accum> is an array that will hold the event information as sub-arrays.

If the second argument is "", the event is ignored.
If it is undef, the default handler is invoked for the event.

The C$argspec> is a string that describes the information to be reported for the event. Any requested information that does not apply to a specific event is passed as C<undef>. If argspec is omitted, then it is left unchanged.

The return value from $p->handler is the old callback routine or a reference to the accumulator array.

Any return values from handler callback routines/methods are always ignored. A handler callback can request parsing to be aborted by
invoking the $p->eof method. A handler callback is not allowed to
invoke the $p->parse() or $p->parse_file() method. An exception will
be raised if it tries.

Examples:

$p->handler(start => "start", 'self, attr, attrseq, text');

This causes the "start" method of object $p to be called for 'start' events.
The callback signature is $p->start(%attr, @attr_seq, $text).

$p->handler(start => &start, 'attr, attrseq, text');

This causes subroutine start() to be called for 'start' events.
The callback signature is start(%attr, @attr_seq, $text).

$p->handler(start => @accum, "S", attr, attrseq, text);

This causes 'start' event information to be saved in @accum.
The array elements will be ['S', %attr, @attr_seq, $text].

$p->handler(start => "");

This causes 'start' events to be ignored. It also suppresses
invocations of any default handler for start events. It is in most
cases equivalent to $p->handler(start => sub {}), but is more
efficient. It is different from the empty-sub-handler in that
C<skipped_text> is not reset by it.

$p->handler(start => undef);

This causes no handler to be associated with start events.
If there is a default handler it will be invoked.

=back

Filters based on tags can be set up to limit the number of events
reported. The main bottleneck during parsing is often the huge number
of callbacks made from the parser. Applying filters can improve
performance significantly.

The following methods control filters:

=over

=item $p->ignore_elements( @tags )

Both the C<start> event and the C<end> event as well as any events that
would be reported in between are suppressed. The ignored elements can contain nested occurrences of itself. Example:

```
$p->ignore_elements(qw(script style));
```

The `<script>` and `<style>` tags will always nest properly since their content is parsed in CDATA mode. For most other tags `<ignore_elements>` must be used with caution since HTML is often not `well formed`.

```
=item $p->ignore_tags( @tags )
```

Any `<start>` and `<end>` events involving any of the tags given are suppressed. To reset the filter (i.e. don't suppress any `<start>` and `<end>` events), call `<ignore_tags>` without an argument.

```
=item $p->report_tags( @tags )
```

Any `<start>` and `<end>` events involving any of the tags given are suppressed. To reset the filter (i.e. report all `<start>` and `<end>` events), call `<report_tags>` without an argument.

=back

Internally, the system has two filter lists, one for `<report_tags>` and one for `<ignore_tags>`, and both filters are applied. This effectively gives `<ignore_tags>` precedence over `<report_tags>`.

Examples:

```
$p->ignore_tags(qw(style));
$p->report_tags(qw(script style));
```

results in only `<script>` events being reported.

=head2 Argspec

Argspec is a string containing a comma-separated list that describes the information reported by the event. The following argspec identifier names can be used:

```
=over
=item C<attr>
```

Attr causes a reference to a hash of attribute name/value pairs to be passed.
Boolean attributes' values are either the value set by
\$p->boolean_attribute_value, or the attribute name if no value has been
set by \$p->boolean_attribute_value.

This passes undeﬁned except for C<start> events.

Unless C<xml_mode> or C<case_sensitive> is enabled, the attribute
names are forced to lower case.

General entities are decoded in the attribute values and
one layer of matching quotes enclosing the attribute values is removed.

The Unicode character set is assumed for entity decoding.

=item C<@attr>

Basically the same as C<attr>, but keys and values are passed as
individual arguments and the original sequence of the attributes is
kept. The parameters passed will be the same as the @attr calculated
here:

    @attr = map { $_ => $attr->{$_} } @$attrseq;

assuming $attr and $attrseq here are the hash and array passed as the
result of C<attr> and C<attrseq> argspecs.

This passes no values for events besides C<start>.

=item C<attrseq>

Attrseq causes a reference to an array of attribute names to be
passed. This can be useful if you want to walk the C<attr> hash in
the original sequence.

This passes undeﬁned except for C<start> events.

Unless C<xml_mode> or C<case_sensitive> is enabled, the attribute
names are forced to lower case.

=item C<column>

Column causes the column number of the start of the event to be passed.
The ﬁrst column on a line is 0.

=item C<dtext>

Dtext causes the decoded text to be passed. General entities are
automatically decoded unless the event was inside a CDATA section or
was between literal start and end tags (C<script>, C<style>,
C<xmp>, C<iframe>, C<title>, C<textarea> and C<plaintext>).

The Unicode character set is assumed for entity decoding. With Perl
version 5.6 or earlier only the Latin-1 range is supported, and
entities for characters outside the range 0..255 are left unchanged.

This passes undef except for C<text> events.

=item C<event>

Event causes the event name to be passed.

The event name is one of C<text>, C<start>, C<end>, C<declaration>,
C<comment>, C<process>, C<start_document> or C<end_document>.

=item C<is_cdata>

Is_cdata causes a TRUE value to be passed if the event is inside a CDATA
section or between literal start and end tags (C<script>,
C<style>, C<xmp>, C<iframe>, C<title>, C<textarea> and C<plaintext>).

if the flag is FALSE for a text event, then you should normally
either use C<dtext> or decode the entities yourself before the text is
processed further.

=item C<length>

Length causes the number of bytes of the source text of the event to
be passed.

=item C<line>

Line causes the line number of the start of the event to be passed.
The first line in the document is 1. Line counting doesn't start
until at least one handler requests this value to be reported.

=item C<offset>

Offset causes the byte position in the HTML document of the start of
the event to be passed. The first byte in the document has offset 0.

=item C<offset_end>

Offset_end causes the byte position in the HTML document of the end of
the event to be passed. This is the same as C<offset> + C<length>.

=item C<self>
Self causes the current object to be passed to the handler. If the handler is a method, this must be the first element in the argspec.

An alternative to passing self as an argspec is to register closures that capture $self by themselves as handlers. Unfortunately this creates circular references which prevent the HTML::Parser object from being garbage collected. Using the C<$self> argspec avoids this problem.

=item C<skipped_text>

Skipped_text returns the concatenated text of all the events that have been skipped since the last time an event was reported. Events might be skipped because no handler is registered for them or because some filter applies. Skipped text also includes marked section markup, since there are no events that can catch it.

If an C<"">-handler is registered for an event, then the text for this event is not included in C<skipped_text>. Skipped text both before and after the C<"">-event is included in the next reported C<skipped_text>.

=item C<tag>

Same as C<tagname>, but prefixed with "/" if it belongs to an C<end> event and "!" for a declaration. The C<tag> does not have any prefix for C<start> events, and is in this case identical to C<tagname>.

=item C<tagname>

This is the element name (or I<generic identifier> in SGML jargon) for start and end tags. Since HTML is case insensitive, this name is forced to lower case to ease string matching.

Since XML is case sensitive, the tagname case is not changed when C<xml_mode> is enabled. The same happens if the C<case_sensitive> attribute is set.

The declaration type of declaration elements is also passed as a tagname, even if that is a bit strange.
In fact, in the current implementation tagname is identical to C<token0> except that the name may be forced to lower case.

=item C<token0>

Token0 causes the original text of the first token string to be passed. This should always be the same as $tokens->[0].
For C<declaration> events, this is the declaration type.

For C<start> and C<end> events, this is the tag name.

For C<process> and non-strict C<comment> events, this is everything inside the tag.

This passes undef if there are no tokens in the event.

=item C<tokenpos>

Tokenpos causes a reference to an array of token positions to be passed. For each string that appears in C<tokens>, this array contains two numbers. The first number is the offset of the start of the token in the original C<text> and the second number is the length of the token.

Boolean attributes in a C<start> event will have (0,0) for the attribute value offset and length.

This passes undef if there are no tokens in the event (e.g., C<text>) and for artificial C<end> events triggered by empty element tags.

If you are using these offsets and lengths to modify C<text>, you should either work from right to left, or be very careful to calculate the changes to the offsets.

=item C<tokens>

Tokens causes a reference to an array of token strings to be passed. The strings are exactly as they were found in the original text, no decoding or case changes are applied.

For C<declaration> events, the array contains each word, comment, and delimited string starting with the declaration type.

For C<comment> events, this contains each sub-comment. If $p->strict_comments is disabled, there will be only one sub-comment.

For C<start> events, this contains the original tag name followed by the attribute name/value pairs. The values of boolean attributes will be either the value set by $p->boolean_attribute_value, or the attribute name if no value has been set by $p->boolean_attribute_value.

For C<end> events, this contains the original tag name (always one token).
For `<process>` events, this contains the process instructions (always one token).

This passes `<undef>` for `<text>` events.

- `<text>`

  Text causes the source text (including markup element delimiters) to be passed.

- `<undef>`

  Pass an undefined value. Useful as padding where the same handler routine is registered for multiple events.

- `<...>`

  A literal string of 0 to 255 characters enclosed in single ('') or double (") quotes is passed as entered.

The whole argspec string can be wrapped up in `<@{...}>` to signal that the resulting event array should be flattened. This only makes a difference if an array reference is used as the handler target. Consider this example:

```perl
$p->handler(text => [], 'text');
$p->handler(text => [], '@{text}');
```

With two text events; `<"foo">`, `<"bar">`; then the first example will end up with `[["foo"], ["bar"]]} and the second with ["foo", "bar"] in the handler target array.

=head2 Events

Handlers for the following events can be registered:

=over

=item `<comment>`

This event is triggered when a markup comment is recognized.

Example:

<!-- This is a comment -- -- So is this -->
This event is triggered when a markup declaration is recognized.

For typical HTML documents, the only declaration you are likely to find is `<!DOCTYPE ...>`.

Example:

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

DTDs inside `<!DOCTYPE ...>` will confuse HTML::Parser.

This event is triggered for events that do not have a specific handler. You can set up a handler for this event to catch stuff you did not want to catch explicitly.

This event is triggered when an end tag is recognized.

Example:

```html
</A>
```

This event is triggered when `$p->eof` is called and after any remaining text is flushed. There is no document text associated with this event.

This event is triggered when a processing instructions markup is recognized.

The format and content of processing instructions are system and application dependent.

Examples:

```html
<? HTML processing instructions >
<? XML processing instructions ?>
```
This event is triggered when a start tag is recognized.

Example:

```
<A HREF="http://www.perl.com/">
```

=item C<start_document>

This event is triggered before any other events for a new document. A handler for it can be used to initialize stuff. There is no document text associated with this event.

=item C<text>

This event is triggered when plain text (characters) is recognized. The text may contain multiple lines. A sequence of text may be broken between several text events unless $p->unbroken_text is enabled.

The parser will make sure that it does not break a word or a sequence of whitespace between two text events.

=back

=head2 Unicode

C<HTML::Parser> can parse Unicode strings when running under perl-5.8 or better. If Unicode is passed to $p->parse() then chunks of Unicode will be reported to the handlers. The offset and length argspecs will also report their position in terms of characters.

It is safe to parse raw undecoded UTF-8 if you either avoid decoding entities and make sure to not use I<argspecs> that do, or enable the C<utf8_mode> for the parser. Parsing of undecoded UTF-8 might be useful when parsing from a file where you need the reported offsets and lengths to match the byte offsets in the file.

If a filename is passed to $p->parse_file() then the file will be read in binary mode. This will be fine if the file contains only ASCII or Latin-1 characters. If the file contains UTF-8 encoded text then care must be taken when decoding entities as described in the previous paragraph, but better is to open the file with the UTF-8 layer so that it is decoded properly:

```
open(my $fh, "<:utf8", "index.html") || die "...: $!";
$p->parse_file($fh);
```

If the file contains text encoded in a charset besides ASCII, Latin-1
or UTF-8 then decoding will always be needed.

=head1 VERSION 2 COMPATIBILITY

When an C<HTML::Parser> object is constructed with no arguments, a set
of handlers is automatically provided that is compatible with the old
HTML::Parser version 2 callback methods.

This is equivalent to the following method calls:

```
$p->handler(start   => "start",   "self, tagname, attr, attrseq, text");
$p->handler(end     => "end",     "self, tagname, text");
$p->handler(text    => "text",    "self, text, is_cdata");
$p->handler(process => "process", "self, token0, text");
$p->handler(comment =>
  sub {
    my($self, $tokens) = @_;
    for (@$tokens) {
      $self->comment($_);
    }
    "self, tokens";
  },
  "self, tokens");
```

Setting up these handlers can also be requested with the "api_version =>
2" constructor option.

=head1 SUBCLASING

The C<HTML::Parser> class is subclassable. Parser objects are plain
hashes and C<HTML::Parser> reserves only hash keys that start with
"_hparser". The parser state can be set up by invoking the init()
method, which takes the same arguments as new().

=head1 EXAMPLES

The first simple example shows how you might strip out comments from
an HTML document. We achieve this by setting up a comment handler that
does nothing and a default handler that will print out anything else:

```
use HTML::Parser;
HTML::Parser->new(default_h => [sub { print shift }, 'text'],
  comment_h => [
    sub {
      my $self = shift;
      $self->declaration(substr($_[0], 2, -1));
    },
    "self, text";
  ],
  "_hparser");
->parse_file(shift || die) || die $!;
```

An alternative implementation is:
use HTML::Parser;
HTML::Parser->new(end_document_h => [sub { print shift },
'skipped_text'],
comment_h
=> [""],
)->parse_file(shift || die) || die $!;
This will in most cases be much more efficient since only a single
callback will be made.
The next example prints out the text that is inside the <title>
element of an HTML document. Here we start by setting up a start
handler. When it sees the title start tag it enables a text handler
that prints any text found and an end handler that will terminate
parsing as soon as the title end tag is seen:
use HTML::Parser ();
sub start_handler
{
return if shift ne "title";
my $self = shift;
$self->handler(text => sub { print shift }, "dtext");
$self->handler(end => sub { shift->eof if shift eq "title"; },
"tagname,self");
}
my $p = HTML::Parser->new(api_version => 3);
$p->handler( start => \&start_handler, "tagname,self");
$p->parse_file(shift || die) || die $!;
print "\n";
More examples are found in the F<eg/> directory of the C<HTML-Parser>
distribution: the program C<hrefsub> shows how you can edit all links
found in a document; the program C<htextsub> shows how to edit the text only; the
program C<hstrip> shows how you can strip out certain tags/elements
and/or attributes; and the program C<htext> show how to obtain the
plain text, but not any script/style content.
You can browse the F<eg/> directory online from the I<[Browse]> link on
the http://search.cpan.org/~gaas/HTML-Parser/ page.
=head1 BUGS
The <style> and <script> sections do not end with the first "</", but
need the complete corresponding end tag. The standard behaviour is
not really practical.
When the I<strict_comment> option is enabled, we still recognize

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comments where there is something other than whitespace between even
and odd "--" markers.

Once $p->boolean_attribute_value has been set, there is no way to
restore the default behaviour.

There is currently no way to get both quote characters
into the same literal argspec.

Empty tags, e.g. "$<" and "$>/", are not recognized. SGML allows them
to repeat the previous start tag or close the previous start tag
respectively.

NET tags, e.g. "<code/>" are not recognized. This is SGML
shorthand for "<code></code>".

Unclosed start or end tags, e.g. "<tt<b>...</b></tt>" are not
recognized.

=head1 DIAGNOSTICS

The following messages may be produced by HTML::Parser. The notation
in this listing is the same as used in L<perldiag>:

=over

=item Not a reference to a hash

(F) The object blessed into or subclassed from HTML::Parser is not a
hash as required by the HTML::Parser methods.

=item Bad signature in parser state object at %p

(F) The _hparser_xs_state element does not refer to a valid state structure.
Something must have changed the internal value
stored in this hash element, or the memory has been overwritten.

=item _hparser_xs_state element is not a reference

(F) The _hparser_xs_state element has been destroyed.

=item Can't find '_hparser_xs_state' element in HTML::Parser hash

(F) The _hparser_xs_state element is missing from the parser hash.
It was either deleted, or not created when the object was created.

=item API version %s not supported by HTML::Parser %s
(F) The constructor option 'api_version' with an argument greater than or equal to 4 is reserved for future extensions.

=Item Bad constructor option '%s'

(F) An unknown constructor option key was passed to the new() or init() methods.

=Item Parse loop not allowed

(F) A handler invoked the parse() or parse_file() method. This is not permitted.

=Item marked sections not supported

(F) The $p->marked_sections() method was invoked in a HTML::Parser module that was compiled without support for marked sections.

=Item Unknown boolean attribute (%d)

(F) Something is wrong with the internal logic that set up aliases for boolean attributes.

=Item Only code or array references allowed as handler

(F) The second argument for $p->handler must be either a subroutine reference, then name of a subroutine or method, or a reference to an array.

=Item No handler for %s events

(F) The first argument to $p->handler must be a valid event name; i.e. one of "start", "end", "text", "process", "declaration" or "comment".

=Item Unrecognized identifier %s in argspec

(F) The identifier is not a known argspec name. Use one of the names mentioned in the argspec section above.

=Item Literal string is longer than 255 chars in argspec

(F) The current implementation limits the length of literals in an argspec to 255 characters. Make the literal shorter.

=Item Backslash reserved for literal string in argspec

(F) The backslash character "\" is not allowed in argspec literals. It is reserved to permit quoting inside a literal in a later version.
=item Unterrminated literal string in argspec

(F) The terminating quote character for a literal was not found.

=item Bad argspec (%s)

(F) Only identifier names, literals, spaces and commas
are allowed in argspecs.

=item Missing comma separator in argspec

(F) Identifiers in an argspec must be separated with ",".

=item Parsing of undecoded UTF-8 will give garbage when decoding entities

(W) The first chunk parsed appears to contain undecoded UTF-8 and one
or more argspecs that decode entities are used for the callback
handlers.

The result of decoding will be a mix of encoded and decoded characters
for any entities that expand to characters with code above 127. This
is not a good thing.

The recommended solution is to apply Encode::decode_utf8() on the data before
feeding it to the $p->parse(). For $p->parse_file() pass a file that has been
opened in "utf8" mode.

The alternative solution is to enable the C<utf8_mode> and not decode before
passing strings to $p->parse(). The parser can process raw undecoded UTF-8
sanely if the C<utf8_mode> is enabled, or if the "attr", "@attr" or "dtext"
argspecs are avoided.

=item Parsing string decoded with wrong endianness

(W) The first character in the document is U+FFFE. This is not a
legal Unicode character but a byte swapped BOM. The result of parsing
will likely be garbage.

=item Parsing of undecoded UTF-32

(W) The parser found the Unicode UTF-32 BOM signature at the start
of the document. The result of parsing will likely be garbage.

=item Parsing of undecoded UTF-16

(W) The parser found the Unicode UTF-16 BOM signature at the start of
the document. The result of parsing will likely be garbage.
OVERVIEW

The HTML-Parser distribution is a collection of modules that parse and extract information from HTML documents. The modules present in this collection are:

HTML::Parser - The parser base class. It receives arbitrary sized chunks of the HTML text, recognizes markup elements, and separates them from the plain text. As different kinds of markup and text are recognized, the corresponding event handlers are invoked.

HTML::Entities - Provides functions to encode and decode text with embedded HTML &lt;entities&gt;.

HTML::HeadParser - A lightweight HTML::Parser subclass that extracts information from the &lt;HEAD&gt; section of an HTML document.
HTML::LinkExtor - An HTML::Parser subclass that extracts links from an HTML document.

HTML::PullParser - An alternative interface to the basic parser that does not require event driven programming.

HTML::TokeParser - An HTML::PullParser subclass with fixed token setup and methods for extracting text. Many simple parsing needs are probably best attacked with this module.

In addition take a look at the HTML::Tree package that build on HTML::Parser to create and extract information from HTML syntax trees (similar to HTML DOM).

PREREQUISITES

In order to install and use this package you will need Perl version 5.8 or better. The HTML::Tagset module should be installed.

If you intend to use the HTML::HeadParser you probably want to install libwww-perl too.

INSTALLATION

Just follow the usual procedure:

perl Makefile.PL
make
make test
make install

REPORTING BUGS

Bug reports and issues for discussion about these modules can be sent to the <libwww@perl.org> mailing list.

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Found in path(s):
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/README
No license file was found, but licenses were detected in source scan.

=encoding utf8

=head1 NAME

HTML::Entities - Encode or decode strings with HTML entities

=head1 SYNOPSIS

use HTML::Entities;

$a = "Våre norske tegn b&oslash;r &#230res";
decode_entities($a);
encode_entities($a, "\200-\377");

For example, this:

$input = "vis-à-vis Beyoncé's naïve\npapier-mâché résumé";
print encode_entities($input), "\n"

Prints this out:

vis-à-vis Beyoncé's naïve
papier-mâché résumé

=head1 DESCRIPTION

This module deals with encoding and decoding of strings with HTML character entities. The module provides the following functions:

=over 4
=item decode_entities( $string, ... )

This routine replaces HTML entities found in the $string with the corresponding Unicode character. Unrecognized entities are left alone.

If multiple strings are provided as argument they are each decoded separately and the same number of strings are returned.

If called in void context the arguments are decoded in-place.

This routine is exported by default.
This will in-place replace HTML entities in $string. The %entity2char hash must be provided. Named entities not found in the %entity2char hash are left alone. Numeric entities are expanded unless their value overflow.

The keys in %entity2char are the entity names to be expanded and their values are what they should expand into. The values do not have to be single character strings. If a key has ";" as suffix, then occurrences in $string are only expanded if properly terminated with ";". Entities without ";" will be expanded regardless of how they are terminated for compatibility with how common browsers treat entities in the Latin-1 range.

If $expand_prefix is TRUE then entities without trailing ";" in %entity2char will even be expanded as a prefix of a longer unrecognized name. The longest matching name in %entity2char will be used. This is mainly present for compatibility with an MSIE misfeature.

```perl
$string = "foo&nbspbar";
_decode_entities($string, { nb => "@", nbsp => "\xA0" }, 1);
print $string;  # will print "foo  bar"
```

This routine is exported by default.

This routine replaces unsafe characters in $string with their entity representation. A second argument can be given to specify which characters to consider unsafe. The unsafe characters is specified using the regular expression character class syntax (what you find within brackets in regular expressions).

The default set of characters to encode are control chars, high-bit chars, and the C<< < >>, C<< & >>, C<< > >>, C<< ' >> and C<< " >> characters. But this, for example, would encode I<just> the C<< < >>, C<< & >>, C<< > >>, C<< ' >>, and C<< " >> characters:

```perl
$encoded = encode_entities($input, '<>&"');
```

and this would only encode non-plain ascii:
$encoded = encode_entities($input, '^
\x20-\x25\x27-\x7e\t\n');

This routine is exported by default.

=item encode_entities_numeric( $string )

=item encode_entities_numeric( $string, $unsafe_chars )

This routine works just like encode_entities, except that the replacement entities are always \&\$hexnum; and never \&\$entname;. For example, \&\$encode_entities("r\xF4le") \returns "r\&ocirc;le", but \&\$encode_entities_numeric("r\xF4le") \returns "r\&#xF4;le".

This routine is \texttt{not} exported by default. But you can always export it with \texttt{use HTML::Entities qw(encode_entities_numeric);} or even \texttt{use HTML::Entities qw(:DEFAULT encode_entities_numeric);}.

=back

All these routines modify the string passed as the first argument, if called in a void context. In scalar and array contexts, the encoded or decoded string is returned (without changing the input string).

If you prefer not to import these routines into your namespace, you can call them as:

\begin{verbatim}
use HTML::Entities ();
$decoded = HTML::Entities::decode($a);
$encoded = HTML::Entities::encode($a);
$encoded = HTML::Entities::encode_numeric($a);
\end{verbatim}

The module can also export the \%char2entity and the \%entity2char hashes, which contain the mapping from all characters to the corresponding entities (and vice versa, respectively).

=head1 COPYRIGHT

Copyright 1995-2006 Gisle Aas. All rights reserved.

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

=cut

Found in path(s):
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/Entities.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTML::PullParser - Alternative HTML::Parser interface

=head1 SYNONYMS

use HTML::PullParser;

$p = HTML::PullParser->new(file => "index.html",
    start => 'event, tagname, @attr',
    end   => 'event, tagname',
    ignore_elements => [qw(script style)],
) || die "Can't open: $!";

while (my $token = $p->get_token) {
    #...do something with $token
}

=head1 DESCRIPTION

The HTML::PullParser is an alternative interface to the HTML::Parser class. It basically turns the HTML::Parser inside out. You associate a file (or any IO::Handle object or string) with the parser at construction time and then repeatedly call $parser->get_token to obtain the tags and text found in the parsed document.

The following methods are provided:

=over 4

=item $p = HTML::PullParser->new( file => $file, %options )

=item $p = HTML::PullParser->new( doc => $doc, %options )

A C<HTML::PullParser> can be made to parse from either a file or a literal document based on whether the C<file> or C<doc> option is passed to the parser's constructor.

The C<file> passed in can either be a file name or a file handle object. If a file name is passed, and it can't be opened for reading, then the constructor will return an undefined value and $! will tell you why it failed. Otherwise the argument is taken to be some object that the C<HTML::PullParser> can read() from when it needs more data. The stream will be read() until EOF, but not closed.

A C<doc> can be passed plain or as a reference to a scalar. If a reference is passed then the value of this scalar
should not be changed before all tokens have been extracted.

Next the information to be returned for the different token types must be set up. This is done by simply associating an argspec (as defined in L<HTML::Parser>) with the events you have an interest in. For instance, if you want C<start> tokens to be reported as the string C<"S"> followed by the tagname and the attributes you might pass an C<start>-option like this:

```
$p = HTML::PullParser->new(
   doc => $document_to_parse,
   start => "S", tagname, @attr,
   end => "E", tagname',
);
```

At last other C<HTML::Parser> options, like C<ignore_tags>, and C<unbroken_text>, can be passed in. Note that you should not use the I<event>_h options to set up parser handlers. That would confuse the inner logic of C<HTML::PullParser>.

=item $token = $p->get_token

This method will return the next I<token> found in the HTML document, or C<undef> at the end of the document. The token is returned as an array reference. The content of this array match the argspec set up during C<HTML::PullParser> construction.

=item $p->unget_token( @tokens )

If you find out you have read too many tokens you can push them back, so that they are returned again the next time $p->get_token is called.

=back

=head1 EXAMPLES

The 'eg/hform' script shows how we might parse the form section of HTML::Documents using HTML::PullParser.

=head1 SEE ALSO

L<HTML::Parser>, L<HTML::TokeParser>

=head1 COPYRIGHT

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modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/PullParser.pm
No license file was found, but licenses were detected in source scan.

/*
 * Copyright 1999-2009, Gisle Aas.
 * This library is free software; you can redistribute it and/or
 * modify it under the same terms as Perl itself.
 */

Found in path(s):
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/util.c
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTML::TokeParser - Alternative HTML::Parser interface

=head1 SYNOPSIS

require HTML::TokeParser;
$p = HTML::TokeParser->new("index.html") ||
die "Can't open: $!";
$p->empty_element_tags(1); # configure its behaviour

while (my $token = $p->get_token) {
    #...
}

=head1 DESCRIPTION

The C<HTML::TokeParser> is an alternative interface to the
C<HTML::Parser> class. It is an C<HTML::PullParser> subclass with a
predeclared set of token types. If you wish the tokens to be reported
differently you probably want to use the C<HTML::PullParser> directly.

The following methods are available:

=over 4

=item $p = HTML::TokeParser->new( $filename, %opt );
The object constructor argument is either a file name, a file handle object, or the complete document to be parsed. Extra options can be provided as key/value pairs and are processed as documented by the base classes.

If the argument is a plain scalar, then it is taken as the name of a file to be opened and parsed. If the file can't be opened for reading, then the constructor will return C<undef> and $! will tell you why it failed.

If the argument is a reference to a plain scalar, then this scalar is taken to be the literal document to parse. The value of this scalar should not be changed before all tokens have been extracted.

Otherwise the argument is taken to be some object that the C<HTML::TokeParser> can read() from when it needs more data. Typically it will be a filehandle of some kind. The stream will be read() until EOF, but not closed.

A newly constructed C<HTML::TokeParser> differ from its base classes by having the C<unbroken_text> attribute enabled by default. See L<HTML::Parser> for a description of this and other attributes that influence how the document is parsed. It is often a good idea to enable C<empty_element_tags> behaviour.

Note that the parsing result will likely not be valid if raw undecoded UTF-8 is used as a source. When parsing UTF-8 encoded files turn on UTF-8 decoding:

    open(my $fh, "<utf8", "index.html") || die "Can't open 'index.html': $!";
    my $p = HTML::TokeParser->new( $fh );
    # ...

If a $filename is passed to the constructor the file will be opened in raw mode and the parsing result will only be valid if its content is Latin-1 or pure ASCII.

If parsing from an UTF-8 encoded string buffer decode it first:

    utf8::decode($document);
    my $p = HTML::TokeParser->new( $document );
    # ...

=item $p->get_token
This method will return the next `I<token>` found in the HTML document, or `C<undef>` at the end of the document. The token is returned as an array reference. The first element of the array will be a string denoting the type of this token: "S" for start tag, "E" for end tag, "T" for text, "C" for comment, "D" for declaration, and "PI" for process instructions. The rest of the token array depend on the type like this:

```
["S", $tag, $attr, $attrseq, $text]
["E", $tag, $text]
["T", $text, $is_data]
["C", $text]
["D", $text]
["PI", $token0, $text]
```

where $attr is a hash reference, $attrseq is an array reference and the rest are plain scalars. The L<HTML::Parser/Argspec> explains the details.

=item $p->unget_token( @tokens )

If you find you have read too many tokens you can push them back, so that they are returned the next time $p->get_token is called.

=item $p->get_tag

=item $p->get_tag( @tags )

This method returns the next start or end tag (skipping any other tokens), or `C<undef>` if there are no more tags in the document. If one or more arguments are given, then we skip tokens until one of the specified tag types is found. For example:

```
$p->get_tag("font", "/font");
```

will find the next start or end tag for a font-element.

The tag information is returned as an array reference in the same form as for $p->get_token above, but the type code (first element) is missing. A start tag will be returned like this:

```
[Stag, Sattr, Sattrseq, $text]
```

The tagname of end tags are prefixed with "/", i.e. end tag is returned like this:

```
["/"Stag", $text]
```
This method returns all text found at the current position. It will return a zero length string if the next token is not text. Any entities will be converted to their corresponding character.

If one or more arguments are given, then we return all text occurring before the first of the specified tags found. For example:

```perl
$p->get_text("p", "br");
```

will return the text up to either a paragraph of linebreak element.

The text might span tags that should be textified. This is controlled by the $p->{textify} attribute, which is a hash that defines how certain tags can be treated as text. If the name of a start tag matches a key in this hash then this tag is converted to text. The hash value is used to specify which tag attribute to obtain the text from. If this tag attribute is missing, then the upper case name of the tag enclosed in brackets is returned, e.g. "[IMG]". The hash value can also be a subroutine reference. In this case the routine is called with the start tag token content as its argument and the return value is treated as the text.

The default $p->{textify} value is:

```perl
{img => "alt", applet => "alt"}
```

This means that `<IMG>` and `<APPLET>` tags are treated as text, and that the text to substitute can be found in the ALT attribute.

Same as $p->get_text above, but will collapse any sequences of white space to a single space character. Leading and trailing white space is removed.

This will return all text found at the current position ignoring any phrasal-level tags. Text is extracted until the first non phrasal-level tag. Textification of tags is the same as for get_text(). This method will collapse white space in the same way as
get_trimmed_text() does.

The definition of phrasal-level tags is obtained from the HTML::Tagset module.

=back

=head1 EXAMPLES

This example extracts all links from a document. It will print one line for each link, containing the URL and the textual description between the <A>... </A> tags:

use HTML::TokeParser;
$p = HTML::TokeParser->new(shift||"index.html");

while (my $token = $p->get_tag("a")) {
    my $url = $token->[1]{href} || ";
    my $text = $p->get_trimmed_text("/a");
    print "$url\t$text\n";
}

This example extract the <TITLE> from the document:

use HTML::TokeParser;
$p = HTML::TokeParser->new(shift||"index.html");
if ($p->get_tag("title")) {
    my $title = $p->get_trimmed_text;
    print "Title: $title\n";
}

=head1 SEE ALSO

L<HTML::PullParser>, L<HTML::Parser>

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=cut

Found in path(s):
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/TokeParser.pm
No license file was found, but licenses were detected in source scan.

=head1 EXAMPLE

This is an example showing how you can extract links from a document received using LWP:

use LWP::UserAgent;
use HTML::LinkExtor;
use URI::URL;

$url = "http://www.perl.org/";  # for instance
$ua = LWP::UserAgent->new;

# Set up a callback that collect image links
my @imgs = ();
sub callback {
    my($tag, %attr) = @_;  
    return if $tag ne 'img';  # we only look closer at <img ...>
    push(@imgs, values %attr);
}

# Make the parser.  Unfortunately, we don't know the base yet
# (it might be different from $url)
$p = HTML::LinkExtor->new(&callback);

# Request document and parse it as it arrives
$res = $ua->request(HTTP::Request->new(GET => $url),
    sub { $p->parse($_[0]) });

# Expand all image URLs to absolute ones
my $base = $res->base;
@imgs = map { $_ = url($_, $base)->abs; } @imgs;

# Print them out
print join("\n", @imgs), "\n";

=head1 SEE ALSO

L<HTML::Parser>, L<HTML::Tagset>, L<LWP>, L<URI::URL>

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Found in path(s):
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/LinkExtor.pm
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Found in path(s):
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/hparser.h
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/hparser.c
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTML::Filter - Filter HTML text through the parser

=head1 NOTE

B<This module is deprecated.> The C<HTML::Parser> now provides the
functionally of C<HTML::Filter> much more efficiently with the
C<default> handler.

=head1 SYNOPSIS

require HTML::Filter;
$p = HTML::Filter->new->parse_file("index.html");

=head1 DESCRIPTION

C<HTML::Filter> is an HTML parser that by default prints the
original text of each HTML element (a slow version of cat(1) basically).
The callback methods may be overridden to modify the filtering for some
HTML elements and you can override output() method which is called to
print the HTML text.

C<HTML::Filter> is a subclass of C<HTML::Parser>. This means that
the document should be given to the parser by calling the $p->parse()
or $p->parse_file() methods.

=head1 EXAMPLES

The first example is a filter that will remove all comments from an
HTML file. This is achieved by simply overriding the comment method
to do nothing.

package CommentStripper;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub comment { }  # ignore comments

The second example shows a filter that will remove any E<lt>TABLE>s
found in the HTML file. We specialize the start() and end() methods
to count table tags and then make output not happen when inside a
table.

package TableStripper;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub start
{
  my $self = shift;
  $self->{table_seen}++ if $_[0] eq "table";
  $self->SUPER::start(@_);
}

sub end
{
  my $self = shift;
  $self->SUPER::end(@_);
  $self->{table_seen}-- if $_[0] eq "table";
}

sub output
{
  my $self = shift;
  unless ($self->{table_seen}) {
    $self->SUPER::output(@_);
  }
}

If you want to collect the parsed text internally you might want to do
something like this:

package FilterIntoString;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub output { push @{$_[0]->{fhtml}}, $_[1] } sub filtered_html { join('', @{$_[0]->{fhtml}}) }

=head1 SEE ALSO

L<HTML::Parser>

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* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/Filter.pm
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* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/Parser.xs
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=back

=head1 EXAMPLE

$sh = HTTP::Headers->new;
$ph = HTML::HeadParser->new($sh);
$ph->parse("<EOT>
<title>Stupid example</title>
<base href="http://www.linpro.no/lwp/">
Normal text starts here.
EOT

undef $ph;
print $h->title;  # should print "Stupid example"

=head1 SEE ALSO

L<HTML::Parser>, L<HTTP::Headers>

The C<HTTP::Headers> class is distributed as part of the
I<libwww-perl> package. If you don't have that distribution installed
you need to provide the $header argument to the C<HTML::HeadParser>
constructor with your own object that implements the documented
protocol.

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---
abstract: 'HTML parser class'
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 6.66, CPAN::Meta::Converter version 2.133380'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: HTML-Parser
no_index:
directory:
  - t
  - inc
recommends:
  HTTP::Headers: 0
requires:
  HTML::*Tagset: 3
  XSLoader: 0
  perl: 5.008
resources:
  MailingList: mailto:libwww@perl.org
  repository: http://github.com/gisle/html-parser
  version: 3.72

Found in path(s):
  * /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/META.yml

1.834 usb-ids 2020.03.19-1
1.834.1 Available under license:

This package was debianized by Aurelien Jarno <aurel32@debian.org> on
Sun, 03 Feb 2019 11:50:47 +0100

It was downloaded from http://www.linux-usb.org/usb-ids.html

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jloup@gzip.org          madler@alumni.caltech.edu
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Saucier, Jean-Francois
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
1.841 squashfs-tools 4.4-1ubuntu0.3

1.841.1 Available under license:

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1.848 libxcursor 1.2.0-2

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1.849 python-jsonpatch 1.23-3
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1.850 tpm2-tss 2.3.2-1

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1.851 libvirt-daemon-driver-storage-rbd 6.0.0-0ubuntu8.16

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THE BASIC LIBRARY FUNCTIONS
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* 
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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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Also add information on how to contact you by electronic and paper mail.

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:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.873 docbook-xml 4.5-9

1.873.1 Available under license:
No license file was found, but licenses were detected in source scan.

<!- - .......................................................... -->
<!- - DocBook document hierarchy module V4.5 ...................... -->
<!- - File dbhierx.mod ........................................... -->

Permission to use, copy, modify and distribute the DocBook DTD and its accompanying documentation for any purpose and without fee is hereby granted in perpetuity, provided that the above copyright notice and this paragraph appear in all copies. The copyright holders make no representation about the suitability of the DTD for any purpose. It is provided "as is" without expressed or implied warranty.

If you modify the DocBook DTD in any way, except for declaring and referencing additional sets of general entities and declaring additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbhier PUBLIC
 "-//OASIS//ELEMENTS DocBook Document Hierarchy V4.5//EN"
 "dbhierx.mod">
%dbhier;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
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<!ENTITY % local.refclass.char.mix "">
<!ENTITY % refclass.char.mix "#PCDATA
|application
%local.refclass.char.mix;"> 
<!ENTITY % div.title.content "title, subtitle?, titleabbrev?"> 
<!ENTITY % bookcomponent.title.content "title, subtitle?, titleabbrev?"> 
<!ENTITY % sect.title.content "title, subtitle?, titleabbrev?"> 
<!ENTITY % refsect.title.content "title, subtitle?, titleabbrev?"> 
<!ENTITY % set.component.content "((%div.component.mix;)+,
(sect1*|(%refentry.class;)*|simplesect*|(%section.class;)*))
| (sect1+|(%refentry.class;)+|simplesect+|(%section.class;)+)"> 
<!ENTITY % set.content.module "INCLUDE"> 
<!ENTITY % set.module "INCLUDE">
<!-- Note that Part was to have its content model reduced in V4.5. This change will not be made after all. -->

<!--ELEMENT PartIntro (defined below)-->
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Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!-- ................................................................. -->

<!-- This module contains the entity declarations for the standard ISO entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!-- ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook XML Notations V4.1.2//EN"
"dbnotnx.mod">
%dbnotn;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ................................................................. -->

<!-- ENTITY % local.notation.class "" -->
<!-- ENTITY % notation.class
"BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI | EPS | EQN | FAX | GIF | GIF87a | GIF89a | JPG | JPEG | IGES | PCX | PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG | linespecific
%local.notation.class;" -->

<!-- NOTATION BMPPUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!-- NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!-- NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!-- NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!-- NOTATION DITROFFSYSTEM "DITROFF">
<!-- NOTATION DVISYSTEM "DVI">
<!-- NOTATION EPSPUBLIC
<!-- NOTATION EQNSYSTEM "EQN"->
and its accompanying documentation for any purpose and without fee
is hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies. The copyright
holders make no representation about the suitability of the DTD for
any purpose. It is provided "as is" without expressed or implied
warranty.

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Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->

<!-- This module contains the entity declarations for the standard ISO
entity sets used by DocBook. -->

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!-- ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook XML Character Entities V4.1.2//EN"
"dbcentx.mod">%
dbcent;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.

<!-- ...................................................................... -->

<!ENTITY % ISOamsa.module "INCLUDE">
<![ISOamsa.module;]
<!ENTITY % ISOamsa PUBLIC
"ent/iso-amsa.ent">%
ISOamsa;
<![end of ISOamsa.module--->]]>

<!ENTITY % ISOamshb.module "INCLUDE">
<![ISOamshb.module;]
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook XML information pool module V4.5 ............................. -->
<!-- File dbpoolx.mod ..................................................... -->
<!-- ...................................................................... -->

     O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
     Corporation, Norman Walsh, Sun Microsystems, Inc., and the
     Organization for the Advancement of Structured Information
     Standards (OASIS).

$Id: dbpoolx.mod 6340 2006-10-03 13:23:24Z nwalsh $

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If you modify the DocBook XML DTD in any way, except for declaring and
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Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->

<!-- This module contains the definitions for the objects, inline
     elements, and so on that are available to be used as the main
     content of DocBook documents. Some elements are useful for general
     publishing, and others are useful specifically for computer
     documentation.

This module has the following dependencies on other modules:

o It assumes that a %notation.class; entity is defined by the
driver file or other high-level module. This entity is
referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.5//EN"
"dbpoolx.mod">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- Forms entities ....................................................... -->

```xml
<!ENTITY % forminlines.hook "">
<!ENTITY % forms.hook "">
```

<!-- General-purpose semantics entities ................................... -->

```xml
<!ENTITY % yesorno.attvals"CDATA">
```

<!-- Entities for module inclusions ....................................... -->

```xml
<!ENTITY % dbpool.redecl.module "IGNORE">
```

<!-- "Ubiquitous" classes: ndxterm.class and beginpage -->

```xml
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
"indexterm %local.ndxterm.class;">
```

<!-- Object-level classes ................................................. -->

```xml
<!ENTITY % beginpage "">
```

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Open Source Used In Cisco Modeling Labs 2.4 8665
<ENTITY % local.base.char.class "">
<ENTITY % base.char.class
  "anchor %local.base.char.class;"
>

<ENTITY % local.docinfo.char.class "">
<ENTITY % docinfo.char.class
  "author|authorinitials|corpauthor|corperedit|modespec|othercredit
  |productname|productnumber|revhistory
  %local.docinfo.char.class;">

<ENTITY % local.other.char.class "">
<ENTITY % other.char.class
  "remark|subscript|superscript %local.other.char.class;">

<ENTITY % local.inlineobj.char.class "">
<ENTITY % inlineobj.char.class
  "inlinegraphic|linemediaobject|inlineequation %local.inlineobj.char.class;">

<!-- ...................................................................... -->
<!-- Entities for content models .......................................... -->

<ENTITY % formalobject.title.content "title, titleabbrev?">

<!-- Redeclaration placeholder ............................................... -->

<!-- For redeclaring entities that are declared after this point while
   retaining their references to the entities that are declared before
   this point -->

<ENTITY % rdbpool.redecl.module;[

<!-- Defining rdbpool here makes some buggy XML parsers happy. -->

<!--end of dbpool.redecl.module-->
]

<!-- Object-level mixtures ................................................ -->

<!--

  list admn line synp para infm form cmpd gen  desc

Component mixture X X X X X X X X X
Sidebar mixture X X X X X X X X a X
Footnote mixture X X X X X
Example mixture X X X X X

-->
a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

-->

<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix
"#PCDATA
[%xref.char.class];%gen.char.class;
 [%link.char.class];%tech.char.class;
 [%base.char.class];%docinfo.char.class;
 [%other.char.class];%inlineobj.char.class;
 [%synop.class;
 [%ndxterm.class;]beginpage
 %forminlines.hook;
 %local.para.char.mix;">
<!-- Wordsize: Computer word size (32 bit, 64 bit, etc.); no default -->

<!ENTITY % wordsize.attrib
"wordsizeCDATA#IMPLIED">

<!ENTITY % local.effective.attrib "">
<!ENTITY % effective.attrib
"%arch.attrib;
  %condition.attrib;
%conformance.attrib;
%os.attrib;
%revision.attrib;
  %security.attrib;
%userlevel.attrib;
%vendor.attrib;
%wordsize.attrib;
%local.effective.attrib;">

<!-- Common attributes .................................................... -->

<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib
"idID#IMPLIED">

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib
"idID#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib
"langCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib
"remapCDATA#IMPLIED">
<!-- Role is included explicitly on each element -->

<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!-- Format: Notation of the element content, if any -->
<!-- SrcCredit: Information about the source of the Graphic -->
<!-- Width: Same as CALS reprowid (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<ENTITY % graphics.attrib "">
entityref ENTITY #IMPLIED
fileref CDATA #IMPLIED
format(%notation.class;) #IMPLIED
srccredit CDATA #IMPLIED
width CDATA #IMPLIED
contentwidth CDATA #IMPLIED
depth CDATA #IMPLIED
<ENTITY % titleabbrev.element "INCLUDE">
<![%titleabbrev.element;[ <!--doc:The abbreviation of a Title.-->
<ELEMENT titleabbrev %ho; (%title.char.mix;)*>
<![!--end of titleabbrev.element-->]]>

<ENTITY % titleabbrev.attlist "INCLUDE">
<![%titleabbrev.attlist;[ <![%common.attrib; %titleabbrev.role.attrib; %local.titleabbrev.attrib; ]]> <![!--end of titleabbrev.attlist-->]]>
<![!--end of titleabbrev.module-->]]>

<ENTITY % subtitle.module "INCLUDE">
<![%subtitle.module;[ <![%local.subtitle.attrib ""; <![%subtitle.role.attrib "%role.attrib;"; ]]> <![!--entity of subtitle.module-->]]>

<ENTITY % subtitle.element "INCLUDE">
<![%subtitle.element;[ <!--doc:The subtitle of a document.-->
<ELEMENT subtitle %ho; (%title.char.mix;)*>
<![!--end of subtitle.element--> ]]>

<ENTITY % subtitle.attlist "INCLUDE">
<![%subtitle.attlist;[ <![%common.attrib; %subtitle.role.attrib; %local.subtitle.attrib; ]]> <![!--end of subtitle.attlist-->]]>
<![!--end of subtitle.module-->]]>

<!-- ...................................................................... -->
<ENTITY % local.person.ident.mix "">
<ENTITY % person.ident.mix "honorific|firstname|surname|lineage|othername|affiliation -->
<!ENTITY % local.attribution.attrib "">  
<!ENTITY % attribution.role.attrib "%role.attrib;">  

<!ENTITY % attribution.element "INCLUDE">  
<![%attribution.element;[ 
<!--doc:The source of a block quote or epigraph.-->
<!ELEMENT attribution %ho; (%para.char.mix;)*>  
<!--end of attribution.element-->]]>

<!ENTITY % attribution.attlist "INCLUDE">  
<![%attribution.attlist;[  
<!ATTLIST attribution  
%common.attrib;  
%attribution.role.attrib;  
%local.attribution.attrib;  
>  
<!--end of attribution.attlist-->]]>

<!ENTITY % bridgehead.module "INCLUDE">  
<![%bridgehead.module;[  
<!ENTITY % local.bridgehead.attrib "">  
<!ENTITY % bridgehead.role.attrib "%role.attrib;">  

<!ENTITY % bridgehead.element "INCLUDE">  
<![%bridgehead.element;[  
<!--doc:A free-floating heading.-->
<!ELEMENT bridgehead %ho; (%title.char.mix;)*>  
<!--end of bridgehead.element-->]]>

<!-- Renderas: Indicates the format in which the BridgeHead should appear -->

<!ENTITY % bridgehead.attlist "INCLUDE">  
<![%bridgehead.attlist;[  
<!ATTLIST bridgehead renderas(other  
|sect1  
|sect2  
|sect3  
|sect4  
|sect5)#IMPLIED  
%common.attrib;  
%bridgehead.role.attrib;  
%local.bridgehead.attrib;  
>  
<!--end of bridgehead.attlist-->]]>

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<!--doc:A paragraph with a title.-->
<!ELEMENT formalpara %ho; (title, (%ndxterm.class;)*, para)>
<!-end of formalpara.element-->]]>

<!--doc:A paragraph.-->
<!ELEMENT para %ho; (%para.char.mix; | %para.mix;)*>
<!-end of para.element-->]]>

<!--doc:A paragraph that contains only text and inline markup, no block elements.-->
<!ELEMENT simpara %ho; (%para.char.mix;)*>
<!-end of simpara.element-->]]>
GlossList ...................... -->

<!ENTITY % glosslist.module "INCLUDE">
<![%glosslist.module;]
<!ENTITY % local.glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;">  

<!ENTITY % glosslist.element "INCLUDE">
<![%glosslist.element;]
<!--doc: A wrapper for a set of GlossEntries.-->  
<!ELEMENT glosslist %ho; (blockinfo?, (%formalobject.title.content;)?, glossentry+)>
<!--end of glosslist.element-->

<!ENTITY % glosslist.attriblist "INCLUDE">
<![%glosslist.attriblist;]
<!ATTLIST glosslist  
%common.attrib;  
%glosslist.role.attrib;  
%local.glosslist.attrib;  
>  
<!--end of glosslist.attriblist-->

<!ENTITY % glossentry.content.module "INCLUDE">
<![%glossentry.content.module;]
<!ENTITY % glossentry.module "INCLUDE">
<![%glossentry.module;]
<!ENTITY % local.glossentry.attrib " ">
<!ENTITY % glossentry.role.attrib "%role.attrib;">  

<!ENTITY % glossentry.element "INCLUDE">
<![%glossentry.element;]
<!--doc: An entry in a Glossary or GlossList.-->  
<!ELEMENT glossentry %ho; (glossterm, acronym?, abbrev?,  
(ndxterm.class;)*,  
revhistory?, (glosssee|glossdef+))>
<!--end of glossentry.element-->

<!-- SortAs: String by which the GlossEntry is to be sorted  
(alphabetized) in lieu of its proper content -->
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % itemizedlist.role.attrib "%role.attrib;">

<!ENTITY % itemizedlist.element "INCLUDE">
<![%itemizedlist.element;[ 
<!--doc:A list in which each entry is marked with a bullet or other dingbat.-->
<!ELEMENT itemizedlist %ho; (blockinfo?, (%formalobject.title.content;)?, (listpreamble.mix;)*, listitem+)>

<!--end of itemizedlist.element-->]]>

<!-- Spacing: Whether the vertical space in the list should be compressed -->
<!-- Mark: Keyword, e.g., bullet, dash, checkbox, none; list of keywords and defaults are implementation specific -->

<!ENTITY % itemizedlist.attlist "INCLUDE">
<![%itemizedlist.attlist;[ 
<!ATTLIST itemizedlist
spacing	(normal |compact)#IMPLIED
%mark.attrib;
%common.attrib;
%itemizedlist.role.attrib;
%local.itemizedlist.attrib;
>
<!--end of itemizedlist.attlist-->]]>

<!--end of itemizedlist.module-->]]>

<!ENTITY % orderedlist.module "INCLUDE">
<![%orderedlist.module;[ 
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "%role.attrib;">

<!ENTITY % orderedlist.element "INCLUDE">
<![%orderedlist.element;[ 
<!--doc:A list in which each entry is marked with a sequentially incremented label.-->
<!ELEMENT orderedlist %ho; (blockinfo?, (%formalobject.title.content;)?, (listpreamble.mix;)*, listitem+)>

<!--end of orderedlist.element-->]]>

<!-- Numeration: Style of ListItem numbered; default is expected to be Arabic -->
<!-- InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1,
rather than a and b) -->
<!-- Continuation: Where list numbering begins afresh (Repeats, the default) or continues that of the immediately preceding list (Continues) -->
<!-- Spacing: Whether the vertical space in the list should be compressed -->

<!--end of orderedlist.attlist-->

<!--end of orderedlist.module-->

<!--end of listitem.module-->

<!-- Override: Indicates the mark to be used for this ListItem instead of the default mark or the mark specified by the Mark attribute on the enclosing ItemizedList -->

<!--doc:A wrapper for the elements of a list item.-->
<!--ELEMENT listitem %ho; ((%component.mix;)+) -->
<!--end of listitem.element-->

<!-- ENTITY % listitem.attlist "INCLUDE" -->
<!-- ATTLIST listitem -->
"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDE"
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"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDE"
"INCLUDED"
SegmentedList

<!ENTITY % segmentedlist.content.module "INCLUDE">
<!ENTITY % segmentedlist.module "INCLUDE">
<!ENTITY % segmentedlist.role.attrib "%role.attrib;">%segmentedlist.role.attrib;
<!ENTITY % local.segmentedlist.attrib "">%common.attrib;
<!ENTITY % segmentedlist.element "INCLUDE">
<!ELEMENT segmentedlist %ho; ((%formalobject.title.content;)?,
  segtitle+,
  seglistitem+)>
<!ENTITY % segmentedlist.attlist "INCLUDE">
<!ATTLIST segmentedlist
  %common.attrib;
  %segmentedlist.role.attrib;
  %local.segmentedlist.attrib;
  >
  <!!-- end of segmentedlist.attlist-->]]>
<!!-- end of segmentedlist.module-->]]>

<!ENTITY % segtitle.module "INCLUDE">
<!ENTITY % local.segtitle.attrib ""%role.attrib;">%segtitle.role.attrib;
<!ENTITY % segtitle.element "INCLUDE">
<!ELEMENT segtitle %ho; (%title.char.mix;)*>
<!ENTITY % segtitle.attlist "INCLUDE">
<!ATTLIST segtitle
  %common.attrib;
  %segtitle.role.attrib;
  >
  <!!-- end of segtitle.attlist-->]]>
<!!-- end of segtitle.module-->]]>

<!ENTITY % segtitle.element "INCLUDE">
<!DOCTYPE ...
  <!ELEMENT ...
    %common.attrib;
    %segtitle.role.attrib;
    %local.segtitle.attrib;
    >
    <!!-- end of segtitle.element-->]]>
<!ENTITY % segtitle.attlist "INCLUDE">
<!ATTLIST segtitle
  %common.attrib;
  %segtitle.role.attrib;
  >
  <!!-- end of segtitle.attlist-->]]>
<!-- SimpleList ....................... -->

<!ENTITY % simplelist.content.module "INCLUDE">
<![%simplelist.content.module;[ 
<!ENTITY % simplelist.module "INCLUDE">
<![%simplelist.module;[ 
<!ENTITY % local.simplelist.attrib "">
<!ENTITY % simplelist.role.attrib "%role.attrib;">

<!ENTITY % simplelist.element "INCLUDE">
<![%simplelist.element;[ 
<!--doc:An undecorated list of single words or short phrases.-->
<!ELEMENT simplelist %ho; (member+)> 
<!--end of simplelist.element-->
]
]

<!ENTITY % simplelist.attlist "INCLUDE">
<![%simplelist.attlist;[
<!ATTLIST simplelist  
columns CDATA #IMPLIED  
type (inline | vert | horiz) "vert"  
%common.attrib;  
%simplelist.role.attrib;  
%local.simplelist.attrib;  
> 
<!--end of simplelist.attlist-->]]>
<!--end of simplelist.module-->]]>

<!ENTITY % member.module "INCLUDE">
<![%member.module;[
<!ENTITY % local.member.attrib "">
<!ENTITY % member.role.attrib "%role.attrib;">

<!ENTITY % member.element "INCLUDE">
<![%member.element;[ 
<!--doc:An element of a simple list.-->

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%informalexample.role.attrib;
%local.informalexample.attrib;

<!--end of informalexample.attlist-->]]>
<!--end of informalexample.module-->]]>

<!ENTITY % programlistingco.module "INCLUDE">
<![%programlistingco.module;[
<!ENTITY % local.programlistingco.attrib "">
<!ENTITY % programlistingco.role.attrib "%role.attrib;">

<!ENTITY % programlistingco.element "INCLUDE">
<![%programlistingco.element;[
<!--doc:A program listing with associated areas used in callouts.-->
<!ELEMENT programlistingco %ho; (areaspec, programlisting, calloutlist*)>
<!--end of programlistingco.element-->]]>

<!ENTITY % programlistingco.attlist "INCLUDE">
<![%programlistingco.attlist;[
<!ATTLIST programlistingco
%common.attrib;
%programlistingco.role.attrib;
%local.programlistingco.attrib;
>]
<!--end of programlistingco.attlist-->]]>
<!-- CalloutList (defined above in Lists)-->
<!--end of informalexample.module-->]]>

<!ENTITY % areaspec.content.module "INCLUDE">
<![%areaspec.content.module;[
<!ENTITY % areaspec.module "INCLUDE">
<![%areaspec.module;[
<!ENTITY % local.areaspec.attrib "">
<!ENTITY % areaspec.role.attrib "%role.attrib;">

<!ENTITY % areaspec.element "INCLUDE">
<![%areaspec.element;[
<!--doc:A collection of regions in a graphic or code example.-->
<!ELEMENT areaspec %ho; ((area|areaset)+)>
<!--end of areaspec.element-->]]>

<!-- Units: global unit of measure in which coordinates in
this spec are expressed:

- CALSPair "x1,y1 x2,y2": lower-left and upper-right
coordinates in a rectangle describing repro area in which
graphic is placed, where X and Y dimensions are each some
number 0..10000 (taken from CALS graphic attributes)
- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->
<!-- OtherUnits: User-defined units -->

<!--[CDATA[
<!ENTITY % areaspec.attlist "INCLUDE">
<![CDATA[<!ENTITY % areaspec.attlist;]]>
<!ATTLIST areaspec
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
>]]>
<!--end of areaspec.attlist-->]]>

<![CDATA[
<!ENTITY % area.module "INCLUDE">
<![CDATA[<!ENTITY % area.module;]]>
<!ENTITY % local.area.attrib "">]]>
<!ENTITY % area.role.attrib "%role.attrib;">]]>

<![CDATA[
<!ENTITY % area.element "INCLUDE">
<![CDATA[<!ENTITY % area.element;]]>
<!doctype:A region defined for a Callout in a graphic or code example.-->
<!ELEMENT area %ho; EMPTY>]]>
linerrange
linecolumnpair
[other] #IMPLIED
otherunits NMTOKEN #IMPLIED
coords CDATA #REQUIRED
%idreq.common.attrib;
%areaset.role.attrib;
%local.areaset.attrib;
>
<!--end of areaset.attlist-->]]>
<!--end of areaset.module-->]]>
<!--end of areaspec.content.module-->]]>

<!ENTITY % programlisting.module "INCLUDE">
<![%programlisting.module;[
<!ENTITY % local.programlisting.attrib ""
<!ENTITY % programlisting.role.attrib "%role.attrib;">

<!ENTITY % programlisting.element "INCLUDE">
<![%programlisting.element;[
<!--doc:A literal listing of all or part of a program.-->
<!ELEMENT programlisting %ho; (%para.char.mix;|co|coref|lineannotation|textobject)*>
<!--end of programlisting.element-->]]>

<!ENTITY % programlisting.attlist "INCLUDE">
<![%programlisting.attlist;[
<!--doc:A literal listing of all or part of a program.-->
<!ELEMENT programlisting %ho; (%para.char.mix;|co|coref|lineannotation|textobject)*>
<!--end of programlisting.element-->]]>

<!ENTITY % literallayout.module "INCLUDE">
<![%literallayout.module;[
<!ENTITY % local.literallayout.attrib ""
<!ENTITY % literallayout.role.attrib "%role.attrib;">

<!ENTITY % literallayout.element "INCLUDE">
<![%literallayout.element;[
<!--doc:A block of text in which line breaks and white space are to be reproduced faithfully.-->
<!ELEMENT literallayout %ho; (%para.char.mix;|co|coref|textobject|lineannotation)*>
<!--end of literallayout.element-->]]>

<!ENTITY % literallayout.attlist "INCLUDE"/>
<!-- Graphical data can be the content of Graphic, or you can reference an external file either as an entity (Entitref) or a filename (Fileref). -->

<!--doc:A displayed graphical object (not an inline).-->
<!ELEMENT graphic %ho; EMPTY>
<!--end of graphic.element-->

<!--doc:An object containing or pointing to graphical data that will be rendered inline.-->
<!ELEMENT inlinegraphic %ho; EMPTY>
<!--end of inlinegraphic.element-->

<!--doc:-->
Equations ........................

This PE provides a mechanism for replacing equation content, perhaps adding a new or different model (e.g., MathML).

Entities:

- `equation.content`: (alt?, (graphic+|mediaobject+|mathphrase+))
- `inlin_equation.content`: (alt?, (graphic+|inlinemediaobject+|mathphrase+))
- `equation.module`: INCLUDE
- `local.equation.attrib`:
- `equation.role.attrib`: %role.attrib;
- `equation.element`: INCLUDE
- `local.informalequation.attrib`
- `informalequation.role.attrib`: %role.attrib;
- `informalequation.element`: INCLUDE
- `equation.attlist`: INCLUDE
- `form_object.title.content;`:
- `-displayed mathematical equation.
- `informalequation`: %ho; (blockinfo?, (%formalobject.title.content;)?, (informalequation | %equation.content;))

Entities:

- `equation`:
- `equation.content`:
- `equation.role.attrib`: %role.attrib;
- `equation.element`: INCLUDE
- `equation.attlist`: INCLUDE
- `equation.module`: INCLUDE
- `local.equation.attrib`:
- `equation.role.attrib`: %role.attrib;
- `equation.element`: INCLUDE
- `local.informalequation.attrib`:
- `informalequation.role.attrib`: %role.attrib;
- `informalequation.element`: INCLUDE

Entities:

- `informalequation`:
- `informalequation.content`:
- `informalequation.role.attrib`: %role.attrib;
- `informalequation.element`: INCLUDE
- `informalequation.module`: INCLUDE
- `local.informalequation.attrib`:
- `informalequation.role.attrib`: %role.attrib;

Entities:

- `informalequation`:
- `informalequation.content`:
- `informalequation.role.attrib`: %role.attrib;
- `informalequation.element`: INCLUDE
- `informalequation.module`: INCLUDE
- `local.informalequation.attrib`:
- `informalequation.role.attrib`: %role.attrib;
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<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Open Source Used In Cisco Modeling Labs 2.4</title>
</head>
<body>

<!--Tables to include-->

</body>
</html>
entities so that, when the CALS table module is read, we end up allowing any table to be CALS or HTML.
i.e. This include must come first! -->
<!ENTITY % htmltbl
PUBLIC "-//OASIS//ELEMENTS DocBook XML HTML Tables V4.5//EN"
"htmltblx.mod">
%htmltbl;
<![endif--end of allow.html.tables-->]]>

<!ENTITY % tables.role.attrib "%role.attrib;">
<![%cals.table.module;[ 
<!-- Add label and role attributes to table and informaltable -->
<!ENTITY % bodyatt "
floatstyle CDATA #IMPLIED
rowheader (firstcol|norowheader) #IMPLIED
%label.attrib;">

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, EntryTbl, and Entry (and InformalTable element). -->
<!ENTITY % secur "%common.attrib;
%tables.role.attrib;"> 

<!ENTITY % common.table.attribs "%bodyatt;
%secur;"> 

<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl "(blockinfo?, (%formalobject.title.content;), (%ndxterm.class;)*,
textobject*,
 (graphic+|mediaobject+|tgroup+))"> 

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "%para.char.mix; | %tabentry.mix;"> 

<!-- Reference CALS Table Model -->
<!ENTITY % tablemodel 
PUBLIC "-//OASIS//DTD DocBook CALS Table Model V4.5//EN"
"calstblx.dtd"> 
]]> 

<![%exchange.table.module;[ 
<!-- Add common attributes and the Label attribute to Table and -->
<!DOCTYPE %cmdsynopsis.element [<!ENTITY % cmdsynopsis.module "INCLUDE">
<![%cmdsynopsis.module:]
<ENTITY % local.cmdsynopsis.attrib "">
<ENTITY % cmdsynopsis.role.attrib "%role.attrib;">

<ENTITY % cmdsynopsis.element "INCLUDE">
<![%cmdsynopsis.element:]
<!-doc:A syntax summary for a software command.-->
<ELEMENT cmdsynopsis %ho; ((command | arg | group | sbr)+, synopfragment*)>
<!-end of cmdsynopsis.element-->]]>

<!-- Sepchar: Character that should separate command and all top-level arguments; alternate value might be e.g., &Delta; -->

<!-- Choice: Whether Arg must be supplied: Opt (optional to supply, e.g. [arg]; the default), Req (required to supply, e.g. {arg}), or Plain (required to supply, e.g. arg) -->
<!ENTITY % arg.attlist "INCLUDE">
<![%arg.attlist:]
<!ATTLIST arg
choice(opt
|req
|plain')opt'
rep(norepeat
|repeat)'norepeat'
%common.attrib;
%arg.role.attrib;
%local.arg.attrib;
>
<!--end of arg.attlist-->]]>
<!--end of arg.module-->]]>

<!ENTITY % group.module "INCLUDE">
<![%group.module:]

<!ENTITY % local.group.attrib """>
<!ENTITY % group.role.attrib "%role.attrib;">

<!ENTITY % group.element "INCLUDE">
<![%group.element:]
<!--doc:A group of elements in a CmdSynopsis.-->
<!ELEMENT group %ho; ((arg | group | option | synopfragmentref
| replaceable | sbr)+)
<!--end of group.element-->]]>

<!-- Choice: Whether Group must be supplied: Opt (optional to
supply, e.g. [g1|g2|g3]; the default), Req (required to
supply, e.g. {g1|g2|g3}), Plain (required to supply,
e.g. g1|g2|g3), OptMult (can supply zero or more, e.g.
[[g1|g2|g3]], or ReqMult (must supply one or more, e.g.
{g1|g2|g3}) -->
<!-- Rep: whether Group is repeatable: Norepeat (e.g. group
without ellipsis; the default), or Repeat (e.g. group...) -->

<!ENTITY % group.attlist "INCLUDE">
<![%group.attlist:]
<!ATTLIST group
choice(opt
|req
|plain) 'opt'
rep(norepeat
|repeat)'norepeat'
%common.attrib;
%group.role.attrib;
%local.group.attrib;
>
<!--end of group.attlist-->
<!--end of group.module-->

<!ENTITY % sbr.module "INCLUDE">
<![%sbr.module;
<!ENTITY % local.sbr.attrib "">
<!-- Synopsis break -->
<!ENTITY % sbr.role.attrib "%role.attrib;">

<!ENTITY % sbr.element "INCLUDE">
<![%sbr.element;
<!--doc:An explicit line break in a command synopsis.-->
<!ELEMENT sbr %ho; EMPTY>
<!--end of sbr.element-->

<!ENTITY % sbr.attlist "INCLUDE">
<![%sbr.attlist;
<!ATTLIST sbr
%common.attrib;
%sbr.role.attrib;
%local.sbr.attrib;
>
<!--end of sbr.attlist-->
<!--end of sbr.module-->

<!ENTITY % synopfragmentref.module "INCLUDE">
<![%synopfragmentref.module;
<!ENTITY % local.synopfragmentref.attrib "">
<!ENTITY % synopfragmentref.role.attrib "%role.attrib;">

<!ENTITY % synopfragmentref.element "INCLUDE">
<![%synopfragmentref.element;
<!--doc:A reference to a fragment of a command synopsis.-->
<!ELEMENT synopfragmentref %ho; (#PCDATA)>
<!--end of synopfragmentref.element-->

<!-- to SynopFragment of complex synopsis
material for separate referencing -->

<!ENTITY % synopfragmentref.attlist "INCLUDE">
<![%synopfragmentref.attlist;
<!DOCTYPE funcprototype.grammar PUBLIC "-//W3C//DTD XML 1.0//EN" "funcprototype.dtd">

<!ENTITY % funcsynopsis.attlist "INCLUDE">
<![funcsynopsis.attlist:]>
<!ATTLIST funcsynopsis
%label.attrib;
%common.attrib;
%funcsynopsis.role.attrib;
%local.funcsynopsis.attrib;
>
<![funcsynopsis.attlist-->]]>
<![funcsynopsis.module-->]]>

<!ENTITY % funcsynopsisinfo.module "INCLUDE">
<![funcsynopsisinfo.module:]>
<!ENTITY % local.funcsynopsisinfo.attrib "">
<!ENTITY % funcsynopsisinfo.role.attrib "%role.attrib;">

<!ENTITY % funcsynopsisinfo.element "INCLUDE">
<![funcsynopsisinfo.element:]>
<!DOCTYPE funcsynopsisinfo.grammar PUBLIC "-//W3C//DTD XML 1.0//EN" "funcsynopsisinfo.dtd">

<!ENTITY % funcsynopsisinfo.attlist "INCLUDE">
<![funcsynopsisinfo.attlist:]>
<!ATTLIST funcsynopsisinfo
%linespecific.attrib;
%common.attrib;
%funcsynopsisinfo.role.attrib;
%local.funcsynopsisinfo.attrib;
>
<![funcsynopsisinfo.attlist-->]]>
<![funcsynopsisinfo.module-->]]>

<!ENTITY % funcprototype.module "INCLUDE">
<![funcprototype.module:]>
<!ENTITY % local.funcprototype.attrib "">
<!ENTITY % funcprototype.role.attrib "%role.attrib;">

<!ENTITY % funcprototype.element "INCLUDE">
<![funcprototype.element:]>
<!DOCTYPE funcprototype.grammar PUBLIC "-//W3C//DTD XML 1.0//EN" "funcprototype.dtd">

<!--end of funcprototype.element-->]]>

<!--end of funcsynopsisinfo.element-->]]>

<!--end of funcsynopsisinfo.module-->]]>

<!--end of funcsynopsis.module-->]]>

<!--end of funcsynopsis.attlist-->]]>

<!--end of funcsynopsis.attlist-->]]>

<!--end of funcprototype.attlist-->]]>

<!--end of funcprototype.attlist-->]]>

<!--end of funcprototype.module-->]]>

<!--end of funcprototype.module-->]]>

<!--end of funcsynopsisinfo.module-->]]>

<!--end of funcsynopsisinfo.module-->]]>

<!--end of funcsynopsisinfo.attlist-->]]>

<!--end of funcsynopsisinfo.attlist-->]]>

<!--end of funcsynopsis.attlist-->]]>
<!ENTITY % void.attlist "INCLUDE">
<!ATTLIST void %common.attrib; %void.role.attrib; %local.void.attrib; >
<!--end of void.attlist-->]]>
<!--end of void.module-->]]>

<!ENTITY % varargs.module "INCLUDE">
<!ENTITY % varargs.module:[]
ENTITY % local.varargs.attrib "" >
ENTITY % varargs.role.attrib "%role.attrib;" >

<!ENTITY % varargs.element "INCLUDE">
ENTITY %varargs.element:[
!---doc:An empty element in a function synopsis indicating a variable number of arguments.-->
ENTITY varargs %ho; EMPTY >
<!--end of varargs.element-->]]>

<!ENTITY % varargs.attlist "INCLUDE">
ENTITY %varargs.attlist:[]
ENTITY%varargs.attlist:[]
ENTITY%varargs.role.attrib; %local.varargs.attrib; >
<!--end of varargs.attlist-->]]>
<!--end of varargs.module-->]]>

<!ENTITY % paramdef.module "INCLUDE">
ENTITY %paramdef.module:[]
ENTITY%local.paramdef.attrib "" >
ENTITY % paramdef.role.attrib "%role.attrib;" >

<!ENTITY % paramdef.element "INCLUDE">
ENTITY %paramdef.element:[]
ENTITY%paramdef.element:[]
ENTITY%paramdef.element:[]
!---doc:Information about a function parameter in a programming language.-->
ENTITY paramdef %ho; (#PCDATA
   | type
   | replaceable
   | parameter

---
<!ENTITY % local.ooclass.attrib "">
<!ENTITY % ooclass.role.attrib "%role.attrib;">

<!ENTITY % ooclass.element "INCLUDE">
<![%ooclass.element;]
<!--doc:A class in an object-oriented programming language.-->
<!ELEMENT ooclass %ho; ((modifier|package)*, classname)>
<![!--end of ooclass.element--]>

<!ENTITY % ooclass.attlist "INCLUDE">
<![%ooclass.attlist;]
<!ATTLIST ooclass
%common.attrib;
%ooclass.role.attrib;
%local.ooclass.attrib;
>
<![!--end of ooclass.attlist--]>

<!ENTITY % oointerface.module "INCLUDE">
<![%oointerface.module;]
<!ENTITY % local.oointerface.attrib "">
<!ENTITY % oointerface.role.attrib "%role.attrib;">

<!ENTITY % oointerface.element "INCLUDE">
<![%oointerface.element;]
<!--doc:An interface in an object-oriented programming language.-->
<!ELEMENT oointerface %ho; ((modifier|package)*, interfacename)>
<![!--end of oointerface.element--]>

<!ENTITY % oointerface.attlist "INCLUDE">
<![%oointerface.attlist;]
<!ATTLIST oointerface
%common.attrib;
%oointerface.role.attrib;
%local.oointerface.attrib;
>
<![!--end of oointerface.attlist--]>

<!ENTITY % ooexception.module "INCLUDE">
<![%ooexception.module;]
<!ENTITY % local.ooexception.attrib "">
<!ENTITY % ooexception.role.attrib "%role.attrib;">

<!ENTITY % ooexception.element "INCLUDE">
<![%ooexception.element;]
<!--doc:An exception in an object-oriented programming language.-->

<!ELEMENT ooexception %ho; ((modifier|package)*, exceptionname)>
<!ENTITY % ooexception.attlist "INCLUDE">
<![%ooexception.attlist;]
<!ATTLIST ooexception
%common.attrib;
%ooexception.role.attrib;
%local.ooexception.attrib;
>
<!--end of ooexception.attlist-->]]>
<!--end of ooexception.module-->]]>

<!ENTITY % modifier.module "INCLUDE">
<![%modifier.module;]
<!ENTITY % local.modifier.attrib "">
<!ENTITY % modifier.role.attrib "%role.attrib;">

<!ENTITY % modifier.element "INCLUDE">
<![%modifier.element;]
<!-doc:Modifiers in a synopsis.-->
<!ELEMENT modifier %ho; (%smallcptr.char.mix;)*>
<!--end of modifier.element-->]]>
<!--end of modifier.module-->]]>

<!ENTITY % interfacename.module "INCLUDE">
<![%interfacename.module;]
<!ENTITY % local.interfacename.attrib "">
<!ENTITY % interfacename.role.attrib "%role.attrib;">

<!ENTITY % interfacename.element "INCLUDE">
<![%interfacename.element;]
<!-doc:The name of an interface.-->
<!ELEMENT interfacename %ho; (%cptr.char.mix;)*>
<!--end of interfacename.element-->]]>

<!ENTITY % interfacename.atlist "INCLUDE">
<![%interfacename.atlist;]
<!ATTLIST interfacename
<!ENTITY % methodparam.role.attrib; %local.methodparam.attrib; >
<!--end of methodparam.attlist-->
<!--end of methodparam.module-->
<!--end of classsynopsis.content.module-->

<!-- The document information elements include some elements that are
currently used only in the document hierarchy module. They are
defined here so that they will be available for use in customized
document hierarchies. -->

<!-- Address ......................... -->

<!-- Ackno ............................ -->

<!--doc:Acknowledgements in an Article.-->

<!--end of ackno.attlist-->
<!--end of ackno.module-->
</!ENTITY % address.content.module "INCLUDE”>
<![address.content.module;]
<!ENTITY % address.module "INCLUDE”>
<!ENTITY % address.content.module "INCLUDE”>
<![address.content.module;]
<!ENTITY % address.module "INCLUDE”>
<!ENTITY % pob.element "INCLUDE">
<![%pob.element;]
<!--doc:A post office box in an address.-->
<!ELEMENT pob %ho; (%docinfo.char.mix;)*>
<!--end of pob.element-->
]

<!ENTITY % pob.attlist "INCLUDE">
<![%pob.attlist;]
<!ATTLIST pob
%common.attrib;
%pob.role.attrib;
%local.pob.attrib;
>
<!--end of pob.attlist-->
]

<!ENTITY % postcode.module "INCLUDE">
<![%postcode.module;]
<!ENTITY % local.postcode.attrib "">
<!ENTITY % postcode.role.attrib "%role.attrib;"> 

<!ENTITY % postcode.element "INCLUDE">
<![%postcode.element;]
<!--doc:A postal code in an address.-->
<!ELEMENT postcode %ho; (%docinfo.char.mix;)*>
<!--end of postcode.element-->
]

<!ENTITY % postcode.attlist "INCLUDE">
<![%postcode.attlist;]
<!ATTLIST postcode
%common.attrib;
%postcode.role.attrib;
%local.postcode.attrib;
>
<!--end of postcode.attlist-->
]

<!ENTITY % city.module "INCLUDE">
<![%city.module;]
<!ENTITY % local.city.attrib "">
<!ENTITY % city.role.attrib "%role.attrib;"> 

<!ENTITY % city.element "INCLUDE">
<![%city.element;]
<!--doc:The name of a city in an address.-->
<!ELEMENT city %ho; (%docinfo.char.mix;)*>
<!--end of city.element-->
]>

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<!-- Email (defined in the Inlines section, below)-->

<!ENTITY % local.country.attrib; >
<!--end of country.attlist-->]]>
<!--end of country.module-->]]>

<!ENTITY % phone.module "INCLUDE">
<![%phone.module;]
<!ENTITY % local.phone.attrib "">
<!ENTITY % phone.role.attrib "%role.attrib;">

<!ENTITY % phone.element "INCLUDE">
<![%phone.element;]
<!doc:A telephone number.-->
<!ELEMENT phone %ho; (%docinfo.char.mix;)*>
<!--end of phone.element-->]]>

<!ENTITY % phone.attlist "INCLUDE">
<![%phone.attlist;]
<!ATTLIST phone
%common.attrib;
%phone.role.attrib;
%local.phone.attrib;
>
<!--end of phone.attlist-->]]>

<!ENTITY % fax.module "INCLUDE">
<![%fax.module;]
<!ENTITY % local.fax.attrib "">
<!ENTITY % fax.role.attrib "%role.attrib;">

<!ENTITY % fax.element "INCLUDE">
<![%fax.element;]
<!doc:A fax number.-->
<!ELEMENT fax %ho; (%docinfo.char.mix;)*>
<!--end of fax.element-->]]>

<!ENTITY % fax.attlist "INCLUDE">
<![%fax.attlist;]
<!ATTLIST fax
%common.attrib;
%fax.role.attrib;
%local.fax.attrib;
>
<!--end of fax.attlist-->]]>
<!--end of fax.module-->]]>

<!-- Email (defined in the Inlines section, below)-->
Open Source Used In Cisco Modeling Labs 2.4 8776
Open Source Used in Cisco Modeling Labs 2.4  8782
<ENTITY % local.legalnotice.attrib ""
<ENTITY % legalnotice.role.attrib "%role.attrib;">

<ENTITY % legalnotice.element "INCLUDE">
<![%legalnotice.element;[
<!--doc:A statement of legal obligations or requirements.-->
<!ELEMENT legalnotice %ho; (blockinfo?, title?, (%legalnotice.mix;)+) %formal.exclusion;>
<!--end of legalnotice.element-->
]]>

<ENTITY % legalnotice.attlist "INCLUDE">
<![%legalnotice.attlist;[
<!ATTLIST legalnotice %common.attrib;
%legalnotice.role.attrib;
%local.legalnotice.attrib;>
<!--end of legalnotice.attlist-->
]]>

<!-- ModeSpec ............................ -->

<ENTITY % modespec.module "INCLUDE">
<![%modespec.module;[
<ENTITY % local.modespec.attrib ""
<ENTITY % modespec.role.attrib "%role.attrib;">

<ENTITY % modespec.element "INCLUDE">
<![%modespec.element;[
<!--doc:Application-specific information necessary for the completion of an OLink.-->
<!ELEMENT modespec %ho; (%docinfo.char.mix;)* %ubiq.exclusion;>
<!--end of modespec.element-->
]]>

<!-- Application: Type of action required for completion of the links to which the ModeSpec is relevant (e.g., retrieval query) -->

<ENTITY % modespec.attlist "INCLUDE">
<![%modespec.attlist;[
<!ATTLIST modespec applicationNOTATION (%notation.class;)#IMPLIED %common.attrib;
%modespec.role.attrib;
%local.modespec.attrib;>
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<!ENTITY % local.computeroutput.attrib "">
<!ENTITY % computeroutput.role.attrib "%role.attrib;">

<!ENTITY % computeroutput.element "INCLUDE">
<![ %computeroutput.element; ]>
<!--doc:Data, generally text, displayed or presented by a computer.-->
<!ELEMENT computeroutput %ho; (%cptr.char.mix;co)*>
<![ --end of computeroutput.element-- ]>]

<!ENTITY % computeroutput.attlist "INCLUDE">
<![ %computeroutput.attlist; ]>
<!ATTLIST computeroutput
%moreinfo.attrib;
%common.attrib;
%computeroutput.role.attrib;
%local.computeroutput.attrib;
>
<![ --end of computeroutput.attlist-- ]>]
<![ --end of computeroutput.module-- ]>]

<!ENTITY % database.module "INCLUDE">
<![ %database.module; ]>
<!ENTITY % local.database.attrib "">
<!ENTITY % database.role.attrib "%role.attrib;">

<!ENTITY % database.element "INCLUDE">
<![ %database.element; ]>
<!--doc:The name of a database, or part of a database.-->
<!ELEMENT database %ho; (%cptr.char.mix;)*>
<![ --end of database.element-- ]>]

<!-- Class: Type of database the element names; no default -->

<!ENTITY % database.attlist "INCLUDE">
<![ %database.attlist; ]>
<!ATTLIST database
class (name
table
field
key1
key2
record
[index
view
primarykey
secondarykey
foreignkey

---

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%local.errortext.attrib;
>
<!--end of errortext.attrib-->
<!--end of errortext.module-->

<!ENTITY % errortext.module "INCLUDE">
<![%errortext.module;[
<!ENTITY % local.errortext.attrib "">
<!ENTITY % errortext.role.attrib "%role.attrib;">

<!ENTITY % errortext.element "INCLUDE">
<![%errortext.element;[  
<!doc:An error message.-->
<!ELEMENT errortext %ho; (%smalleptr.char.mix;)*>  
<!--end of errortext.element-->]]>

<!ENTITY % errortext.attlist "INCLUDE">
<![%errortext.attlist;[
<!ATTLIST errortext  
%common.attrib;  
%errortext.role.attrib;  
%local.errortext.attrib;  
>  
<!--end of errortext.attlist-->
<!--end of errortext.module-->

<!ENTITY % errortype.module "INCLUDE">
<![%errortype.module;[
<!ENTITY % local.errortype.attrib "">
<!ENTITY % errortype.role.attrib "%role.attrib;">

<!ENTITY % errortype.element "INCLUDE">
<![%errortype.element;[  
<!doc:The classification of an error message.-->
<!ELEMENT errortype %ho; (%smalleptr.char.mix;)*>  
<!--end of errortype.element-->]]>

<!ENTITY % errortype.attlist "INCLUDE">
<![%errortype.attlist;[
<!ATTLIST errortype  
%common.attrib;  
%errortype.role.attrib;  
%local.errortype.attrib;  
>  
<!--end of errortype.attlist-->
<!--end of errortype.module-->

<!ENTITY % filename.module "INCLUDE">
Open Source Used In Cisco Modeling Labs 2.4
<!ELEMENT optional %ho; (%cptr.char.mix;)*>
<!--end of optional.element-->

<!ENTITY % optional.attlist "INCLUDE">
<![%optional.attlist;[
<!ATTLIST optional
%common.attrib;
%optional.role.attrib;
%local.optional.attrib;
>]
<!--end of optional.attlist-->]]>
<!--end of optional.module-->]]>

<!ENTITY % parameter.module "INCLUDE">
<![%parameter.module;[
<!ENTITY % local.parameter.attrib "">
<!ENTITY % parameter.role.attrib "%role.attrib;">]
<!ENTITY % parameter.element "INCLUDE">
<![%parameter.element;[
<!--doc:A value or a symbolic reference to a value.-->
<!ELEMENT parameter %ho; (%cptr.char.mix;)*>
<!--end of parameter.element-->]]>

<!-- Class: Type of the Parameter; no default -->

<!ENTITY % parameter.attlist "INCLUDE">
<![%parameter.attlist;[
<!ATTLIST parameter
class (command
|function
|option)#IMPLIED
%moreinfo.attrib;
%common.attrib;
%parameter.role.attrib;
%local.parameter.attrib;
>]
<!--end of parameter.attlist-->]]>
<!--end of parameter.module-->]]>

<!ENTITY % prompt.module "INCLUDE">
<![%prompt.module;[
<!ENTITY % local.prompt.attrib "">
<!ENTITY % prompt.role.attrib "%role.attrib;">]
<!ENTITY % prompt.element "INCLUDE">
<![%prompt.element;[

<!ATTLIST symbol
class(limit)#IMPLIED
%common.attrib;
%symbol.role.attrib;
%local.symbol.attrib;
>
<!--end of symbol.attlist-->]]>
<!--end of symbol.module-->]]>

<!ENTITY % systemitem.module "INCLUDE">  
<![%systemitem.module;[   
<!ENTITY % local.systemitem.attrib "">
<!ENTITY % systemitem.role.attrib "%role.attrib;">  

<!ENTITY % systemitem.element "INCLUDE">  
<![%systemitem.element;[   
<!--doc:A system-related item or term.-->
<!ELEMENT systemitem %ho; (%cptr.char.mix; | acronym | co)*>  
<!--end of systemitem.element-->]]>

<!-- Class: Type of system item the element names; no default -->

<!ENTITY % systemitem.attlist "INCLUDE">  
<![%systemitem.attlist;[   
<!ATTLIST systemitem
class(constant
daemon  |domainname
|etheraddress
|event
|eventhandler
|filesystem
|fqdomainname
|groupname
|ipaddress
|library
|macro
|netmask
|newsgroup
|osname
    |protocol
|resource
|systemname
|username
    |process
|server
    |service)#IMPLIED
%moreinfo.attrib;
<!-- A glossary term. -->
<!ELEMENT glossterm %ho; (%para.char.mix;)*
%glossterm.exclusion;>
<!-- end of glossterm.element-->]
]
]

<!- to GlossEntry if Glossterm used in text -->
<!- BaseForm: Provides the form of GlossTerm to be used
for indexing -->

<!ENTITY % glossterm.attlist "INCLUDE">
<![%glossterm.attlist:[
<!ATTLIST glossterm
baseformCDATA#IMPLIED
%linkend.attrib;
%common.attrib;
%glossterm.role.attrib;
%local.glossterm.attrib;
>
<!--end of glossterm.attlist-->]
<!--end of glossterm.module-->]

<!ENTITY % firstterm.module "INCLUDE">
<![%firstterm.module:[
<!ENTITY % local.firstterm.attrib "">
<!ENTITY % firstterm.role.attrib "%role.attrib;">

<!ENTITY % firstterm.element "INCLUDE">
<![%firstterm.element:[
<!--doc:The first occurrence of a term.-->
<!ELEMENT firstterm %ho; (%para.char.mix;)*
%glossterm.exclusion;>
<!--end of firstterm.element-->]]

<!- to GlossEntry or other explanation -->

<!ENTITY % firstterm.attlist "INCLUDE">
<![%firstterm.attlist:[
<!ATTLIST firstterm
baseformCDATA#IMPLIED
%linkend.attrib;
%common.attrib;
%firstterm.role.attrib;
%local.firstterm.attrib;
>
<!--end of firstterm.attlist-->]
<!--end of firstterm.module-->]

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IndexTerms appear in the text flow for generating or linking an index. -->

<!ENTITY % indexterm.content.module "INCLUDE">
<![[%indexterm.content.module;[
<!ENTITY % indexterm.module "INCLUDE">
<![[%indexterm.module;[
<!ENTITY % local.indexterm.attrib "">
<!ENTITY % indexterm.role.attrib "%role.attrib;">

<!ENTITY % indexterm.element "INCLUDE">
<![[%indexterm.element;[
<!-doc:A wrapper for terms to be indexed.-->
<!ELEMENT indexterm %ho; (primary?, ((secondary, ((tertiary, (see|seealso+)?) | see | seealso+)?) | see | seealso+)?) %ubiq.exclusion;>
<!--end of indexterm.element-->

<!- Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both) -->
<!- Significance: Whether this IndexTerm is the most pertinent of its series (Preferred) or not (Normal, the default) -->
<!- Class: Indicates type of IndexTerm; default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges -->
<!- StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm -->
<!- Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs -->

<!ENTITY % indexterm.attlist "INCLUDE">
<![[%indexterm.attlist;[
<!ATTLIST indexterm %pagenum.attrib; scope(all |global |local)#IMPLIED significance(preferred |normal)"normal"
additional notations, label your DTD as a variant of DocBook. See the maintenance documentation for more information.

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<!-- This module contains the notation declarations used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!-- ENTITY % dbnotn PUBLIC
"-/OASIS//ENTITIES DocBook Notations V4.4//EN"
"dbnotnx.mod">
%dbnotn;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
-->

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class
"BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI
| EPS | EQN | FAX | GIF | GIF87a | GIF89a
| JPG | JPEG | IGES | PCX
| PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG
| SVG | PDF | SWF
| linespecific
%local.notation.class;">

<!NOTATION BMPPUBLIC
"/+//ISBN 0-7923-94.2-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFFSYSTEM "DITROFF">
<!NOTATION DVISYSTEM "DVI">
<!NOTATION EPSPUBLIC
<!NOTATION EQNSYSTEM "EQN">
<!NOTATION FAXPUBLIC
"-//USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untitled Raster//EN">

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Found in path(s):
* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4.5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.4/dbnotnx.mod

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<!-- ...................................................................... -->

<!ENTITY % dbhier PUBLIC "-//OASIS//ELEMENTS DocBook Document Hierarchy V4.2//EN" "dbhierx.mod">

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ...................................................................... -->

<!-- Entities for module inclusions ..................................... -->

<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbhier PUBLIC "-//OASIS//ELEMENTS DocBook Document Hierarchy V4.2//EN" "dbhierx.mod">

%dbhier;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- Entities for module inclusions ..................................... -->
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<!ELEMENT indexdiv (%ho; ((%sect.title.content;)?, (%indexdivcomponent.mix;)*, (indexentry+ | segmentedlist))))>
<!--end of indexdiv.element-->

<!ENTITY % indexdiv.attlist "INCLUDE">
<![%indexdiv.attlist;]
<!ATTLIST indexdiv
%common.attrib;
%indexdiv.role.attrib;
%local.indexdiv.attrib;
>  
<!--end of indexdiv.attlist-->
<!--end of indexdiv.module-->

<!ENTITY % indexentry.module "INCLUDE">
<![%indexentry.module;]
<!ENTITY % local.indexentry.attrib "">
<!ENTITY % indexentry.role.attrib "%role.attrib;">  
<!ENTITY % indexentry.element "INCLUDE">
<![%indexentry.element;]
<!ELEMENT indexentry %ho; (%ndxterm.char.mix;)*>
<!--end of indexentry.element-->

<!ENTITY % indexentry.attlist "INCLUDE">
<![%indexentry.attlist;]
<!ATTLIST indexentry
%common.attrib;
%indexentry.role.attrib;
%local.indexentry.attrib;
>  
<!--end of indexentry.attlist-->
<!--end of indexentry.module-->

<!ENTITY % primsecterie.module "INCLUDE">
<![%primsecterie.module;]
<!ENTITY % local.primsecterie.attrib "">
<!ENTITY % primsecterie.role.attrib "%role.attrib;">  
<!ENTITY % primaryie.element "INCLUDE">
<![%primaryie.element;]
<!ELEMENT primaryie %ho; (%ndxterm.char.mix;)*>
<!--end of primaryie.element-->

<!-- to IndexTerms that these entries represent -->
<ENTITY % refmiscinfo.module "INCLUDE">
<![refmiscinfo.module:]
<ENTITY % local.refmiscinfo.attrib "">
<ENTITY % refmiscinfo.role.attrib "%role.attrib;">

<ENTITY % refmiscinfo.element "INCLUDE">
<![refmiscinfo.element:[
<ENTITY % ho; (%docinfo.char.mix;)*>
<!--end of refmiscinfo.element--]]>

<!ENTITY % refmiscinfo.attlist "INCLUDE">
<![refmiscinfo.attlist:]
<!ATTLIST refmiscinfo classCDATA#IMPLIED
%common.attrib;
%refmiscinfo.role.attrib;
%local.refmiscinfo.attrib;
>
<!--end of refmiscinfo.attlist--]]>
<!--end of refmiscinfo.module--]]>
<ENTITY % refnamediv.module "INCLUDE">
<![refnamediv.module:]
<ENTITY % local.refnamediv.attrib "">
<ENTITY % refnamediv.role.attrib "%role.attrib;">

<ENTITY % refnamediv.element "INCLUDE">
<![refnamediv.element:]
<!ELEMENT refnamediv %ho; (refdescriptor?, refname+, refpurpose, refclass*,
(remark|%link.char.class;*))>
<!--end of refnamediv.element--]]>
<ENTITY % refnamediv.attlist "INCLUDE">
<![refnamediv.attlist:]
<!ATTLIST refnamediv %common.attrib;
%refnamediv.role.attrib;
%local.refnamediv.attrib;
>
<!--end of refnamediv.attlist--]]>
<!--end of refnamediv.module--]]>
<ENTITY % refdescriptor.module "INCLUDE">
<![refdescriptor.module:]
<ENTITY % local.refdescriptor.attrib " ">

---

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<!-- File dbcentx.mod ..................................................... -->

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-->

<!-- .............................................................. -->

<!-- This module contains the entity declarations for the standard ISO
entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbcent PUBLIC
"-/OASIS//ENTITIES DocBook Character Entities V4.2//EN"
"dbcentx.mod">
%dbcent;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.

-->
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<!-- ...................................................................... -->
<!-- DocBook XML document hierarchy module V4.1.2 ......................... -->
<!-- File dbhierx.mod ............................................................ -->

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<!-- ...................................................................... -->

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declaration that uses the public identifier shown below:
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- Entities for module inclusions ....................................... -->
<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- Entities for element classes ......................................... -->
<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">  
<!ENTITY % local.article.class "">
<!ENTITY % article.class "article %local.article.class;">  
<!ENTITY % local.book.class "">
<!ENTITY % book.class "book %local.book.class;">  
<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">  
<!ENTITY % local.index.class "">
<!ENTITY % index.class "index|setindex %local.index.class;">  
<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "refentry %local.refentry.class;">  
<!ENTITY % local.nav.class "">
<!ENTITY % nav.class "toc|lot|index|glossary|bibliography %local.nav.class;">  

<!-- Redeclaration placeholder ............................................ -->
<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->
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Note that Part was to have its content model reduced in V4.1.2. This
Open Source Used In Cisco Modeling Labs 2.4 8920
|sect4
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect2.role.attrib;
%local.sect2.attrib;
>
<!--end of sect2.attlist-->]]>
<!--end of sect2.module-->]]>

<!ENTITY % sect3.module "INCLUDE">
<![%sect3.module;[  
<!ENTITY % local.sect3.attrib ""/>
<!ENTITY % sect3.role.attrib "%role.attrib;">

<!ENTITY % sect3.element "INCLUDE">
<![%sect3.element;[
<!ELEMENT sect3 (sect3info?, (%sect.title.content;), (%nav.class;)*,
(((%divcomponent.mix;)+,
((%refentry.class;)* | sect4* | simplesect*))
| (%refentry.class;)+ | sect4+ | simplesect+), (%nav.class;*)>
<!--end of sect3.element-->]]>

<!ENTITY % sect3.attlist "INCLUDE">
<![%sect3.attlist;[
<!ATTLIST sect3 renderas	(sect1
|sect2
|sect4
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect3.role.attrib;
%local.sect3.attrib;
>
<!--end of sect3.attlist-->]]>
<!--end of sect3.module-->]]>

<!ENTITY % sect4.module "INCLUDE">
<![%sect4.module;[  
<!ENTITY % local.sect4.attrib ""/>
<!ENTITY % sect4.role.attrib "%role.attrib;">

<!ENTITY % sect4.element "INCLUDE">
<![%sect4.element;[
<!ELEMENT sect4 (sect4info?, (%sect.title.content;), (%nav.class;)*,
(((%divcomponent.mix;)+,
((%refentry.class;)* | sect4* | simplesect*))
| (%refentry.class;)+ | sect4+ | simplesect+), (%nav.class;*)>
<!--end of sect4.element-->]]>

<!ENTITY % sect4.attlist "INCLUDE">
<![%sect4.attlist;[
<!ATTLIST sect4 renderas	(sect1
|sect2
|sect4
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect4.role.attrib;
%local.sect4.attrib;
>
<!--end of sect4.attlist-->]]>
<!--end of sect4.module-->]]>

<!-- Renderas: Indicates the format in which the heading should appear -->
<!ENTITY % primaryie.attlist "INCLUDE">
%!%primaryie.attlist:
<!ATTLIST primaryie
%linkends.attrib;%common.attrib;
%primsecterie.role.attrib;
%local.primsecterie.attrib;
>  
<!--end of primaryie.attlist-->]]>

<!ENTITY % secondaryie.element "INCLUDE">
%!%secondaryie.element:
<!ELEMENT secondaryie (%ndxterm.char.mix;)*>
<!--end of secondaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % secondaryie.attlist "INCLUDE">
%!%secondaryie.attlist:
<!ATTLIST secondaryie
%linkends.attrib;%common.attrib;
%primsecterie.role.attrib;
%local.primsecterie.attrib;
>  
<!--end of secondaryie.attlist-->]]>

<!ENTITY % tertiaryie.element "INCLUDE">
%!%tertiaryie.element:
<!ELEMENT tertiaryie (%ndxterm.char.mix;)*>
<!--end of tertiaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % tertiaryie.attlist "INCLUDE">
%!%tertiaryie.attlist:
<!ATTLIST tertiaryie
%linkends.attrib;%common.attrib;
%primsecterie.role.attrib;
%local.primsecterie.attrib;
>  
<!--end of tertiaryie.attlist-->]]>

<!--end of primsecterie.module-->]]>

<!ENTITY % seeie.module "INCLUDE">
%!%seeie.module:
<!ENTITY % local.seeie.attrib "%">
<!ENTITY % seeie.role.attrib "%role.attrib;">
An Article is a chapter-level, stand-alone document that is often, but need not be, collected into a Book.

Class: Indicates the type of a particular article; all articles have the same structure and general purpose. No default.

ParentBook: ID of the enclosing Book.
Found in path(s):
* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.1.2/dbhierx.mod

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<!-- This module contains the definitions for elements that are isomorphic to the HTML elements. One could argue we should instead have based ourselves on the XHTML Table Module, but the HTML one is more like what browsers are likely to accept today and users are likely to use.

This module has been developed for use with the DocBook V4.3 "union table model" in which elements and attlists common to both models are defined (as the union) in the CALS table module by setting various parameter entities appropriately in this file.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!-- Entity declaration for the HTML table module -->
<!ENTITY % htmltbl PUBLIC
"-//OASIS//ELEMENTS DocBook XML HTML Tables V4.3//EN"
"htmltblx.mod">
%htmltbl;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
-->

<!-- Entity declaration for the HTML attributes -->
<!ENTITY % html.coreattrs
"id          ID             #IMPLIED
class       CDATA          #IMPLIED
style       CDATA          #IMPLIED
title       CDATA         #IMPLIED"
>

<!-- Entity declaration for the i18n attributes -->
<!ENTITY % i18n
"xml:lang    NMTOKEN        #IMPLIED"
>

<!-- Entity declaration for the events -->
<!ENTITY % events
"onclick     CDATA       #IMPLIED
ondblclick  CDATA       #IMPLIED
onmousedown CDATA       #IMPLIED
onmouseup   CDATA       #IMPLIED
onmouseover CDATA       #IMPLIED
onmousemove CDATA       #IMPLIED
onmouseout   CDATA       #IMPLIED
onmousemove CDATA       #IMPLIED
onmousemove CDATA       #IMPLIED
onmousemove CDATA       #IMPLIED
"
<table>
<thead>
<tr>
<th>align</th>
<th>left</th>
<th>center</th>
<th>right</th>
<th>justify</th>
<th>char</th>
<th>charoff</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>valign</th>
<th>top</th>
<th>middle</th>
<th>bottom</th>
<th>baseline</th>
</tr>
</thead>
</table>

```
<!ENTITY % attrs "%html.coreattrs; %i18n; %events;">

<!ENTITY % cellhalign "align (left|center|right|justify|char) #IMPLIED
char CDATA #IMPLIED
charoff CDATA #IMPLIED">

<!ENTITY % cellvalign "valign (top|middle|bottom|baseline) #IMPLIED">

<!ELEMENT colgroup (col)*>
<!ELEMENT col EMPTY>
<!ELEMENT tr (th|td)+>
<!ELEMENT th (%para.char.mix; | %tabentry.mix;)*>
<!ELEMENT td (%para.char.mix; | %tabentry.mix;)*>

<!ATTLIST colgroup
%attrs;
span CDATA "1"
width CDATA #IMPLIED
%cellhalign;
%cellvalign;
>

<!ATTLIST col
%attrs;
span CDATA "1"
width CDATA #IMPLIED
%cellhalign;
%cellvalign;
>

<!ATTLIST tr
%attrs;
%cellhalign;
%cellvalign;
bgcolor CDATA #IMPLIED
>

<!ATTLIST th
```
<!DOCTYPE html>
<html><head></head><body>

<table>
<thead>
<tr>
<th>abbr</th>
<th>CDATA</th>
<th>#IMPLIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>axis</td>
<td>CDATA</td>
<td>#IMPLIED</td>
</tr>
<tr>
<td>headers</td>
<td>IDREFS</td>
<td>#IMPLIED</td>
</tr>
<tr>
<td>scope</td>
<td>(row</td>
<td>col</td>
</tr>
<tr>
<td>rowspan</td>
<td>CDATA</td>
<td>&quot;1&quot;</td>
</tr>
<tr>
<td>colspan</td>
<td>CDATA</td>
<td>&quot;1&quot;</td>
</tr>
<tr>
<td>%cellhalign</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%cellvalign</td>
<td></td>
<td></td>
</tr>
<tr>
<td>nowrap</td>
<td>(nowrap)</td>
<td>#IMPLIED</td>
</tr>
<tr>
<td>bgcolor</td>
<td>CDATA</td>
<td>#IMPLIED</td>
</tr>
<tr>
<td>width</td>
<td>CDATA</td>
<td>#IMPLIED</td>
</tr>
<tr>
<td>height</td>
<td>CDATA</td>
<td>#IMPLIED</td>
</tr>
</tbody>
</table>

</td>

<!ATTLIST td
%attrs;
abbr CDATA #IMPLIED
axis CDATA #IMPLIED
headers IDREFS #IMPLIED
scope (row|col|rowgroup|colgroup) #IMPLIED
rowspan CDATA "1"
colspan CDATA "1"
%cellhalign;
%cellvalign;
nowrap (nowrap) #IMPLIED
bgcolor CDATA #IMPLIED
width CDATA #IMPLIED
height CDATA #IMPLIED
>

<!-- ====================================================== -->
<!-- Set up to read in the CALS model configured to merge with the XHTML table model -->
<!-- ============================================================== -->

<!-- Add label and role attributes to table and informaltable -->

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, EntryTbl, and Entry (and InformalTable element). -->

<!ENTITY % tables.role.attrib "%role.attrib;">

<!ENTITY % bodyatt "">

<!ENTITY % floatstyleCDATA#IMPLIED
%label.attrib;">

<!ENTITY % secur " >

</body></html>
<!-- thead, tfoot, and tbody are defined in both table models, so we set up parameter entities to define union models for them -->

<!ENTITY % tbl.hdft.mdl "(tr+|(colspec*,row+))">
<!ENTITY % tbl.tbody.mdl "(tr+|row+)">
<!ENTITY % tbl.valign.attval "top|middle|bottom|baseline">

Found in path(s):
* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.3/htmltblx.mod
No license file was found, but licenses were detected in source scan.

DOD//DTD Table Model 951010//EN"

$Id: calstblx.dtd,v 1.6 2000/05/18 19:40:49 nwalsh Exp $

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Found in path(s):
* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.0/calstblx.dtd
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<!-- .............................................................. -->
<!-- DocBook notations module V4.3 ............................... -->
<!-- File dbnotnx.mod ............................................. -->

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<!-- ...................................................................... -->

<!-- This module contains the notation declarations used by DocBook. -->

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook Notations V4.3//EN"
"dbnotnx.mod">%dbnotn;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!ENTITY % local.notation.class ""> <!-- ENTITY % notation.class
"BMP  | CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI
| EPS  | EQN  | FAX | GIF | GIF87a | GIF89a
| JPG | JPEG | IGES | PCX
| PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG
| SVG | PDF | SWF
| linespecific
%local.notation.class;"-->
No license file was found, but licenses were detected in source scan.

DOD//DTD Table Model 951010//EN"

$Id: calstblx.dtd,v 1.20 2004/03/31 10:44:12 nwalsh Exp $

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Found in path(s):
* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.3/calstblx.dtd

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

<!-- ...................................................................... -->
<!-- DocBook XML document hierarchy module V4.0 ........................... -->
<!-- File dbhierx.mod ..................................................... -->
<!-- File dbhierx.mod ..................................................... -->


$Id: dbhierx.mod,v 1.7 2000/05/18 19:40:49 nwalsh Exp $

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<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbhier PUBLIC "-//OASIS//ELEMENTS DocBook XML Document Hierarchy V4.0//EN" "dbhierx.mod">
%dbhier;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- Entities for module inclusions ....................................... -->
<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- Entities for element classes ......................................... -->
<!ENTITY % local.appendix.class "">
<!ENTITY % article.class "article %local.article.class;" >
The %article.class; entity *may* be removed from the Book content model.
(Article may be made part of a new top-level document hierarchy.)

-->  

<!ENTITY % local.book.attrib ""
<!ENTITY % book.role.attrib "%role.attrib;">

<!ENTITY % book.element "INCLUDE">
<![book.element];
<!ELEMENT book ((%div.title.content;)?, bookinfo?,
dedication | toc | lot
| glossary | bibliography | preface
| %chapter.class; | reference | part
| %article.class;
| %appendix.class;
| %index.class;
colophon)*>
<!--end of book.element-->]]>

<!-- FPI: SGML formal public identifier -->

<!ENTITY % book.attlist "INCLUDE">
<![book.attlist;]
<!ATTLIST bookfpiCDATA#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%book.role.attrib;
%local.book.attrib;
>
<!--end of book.attlist-->]]>
<!--end of book.module-->]]>

<!ENTITY % bookinfo.module "INCLUDE">
<![bookinfo.module;]
<!ENTITY % local.bookinfo.attrib ""
<!ENTITY % bookinfo.role.attrib "%role.attrib;">

<!ENTITY % bookinfo.element "INCLUDE">
<![bookinfo.element;]
<!ELEMENT bookinfo ((graphic | mediaobject
  | legalnotice | modespec | subjectset
  | keywordset | itemset [%bibliocomponent.mix;]+))>
<!--end of bookinfo.element-->]]>
Open Source Used In Cisco Modeling Labs 2.4  8957
Open Source Used In Cisco Modeling Labs 2.4
as for a list of illustrations -->
<!-- linkend: to element that this entry represents-->
<!ENTITY % lotentry.attlist "INCLUDE">
<!ATTLIST lotentry
srccredit CDATA #IMPLIED
%pagenum.attrib;
%common.attrib;
%linkend.attrib;
%lotentry.role.attrib;
%local.lotentry.attrib;
>
<!--end of lotentry.attlist-->
<!--end of lotentry.module-->
<!--end of lot.content.module-->

<!-- ............................................................... -->
<!-- Appendix, Chapter, Part, Preface, Reference, PartIntro ............... -->
<!ENTITY % appendix.module "INCLUDE">
<!ATTLIST appendix
%label.attrib;
%status.attrib;
%common.attrib;
%appendix.role.attrib;
%local.appendix.attrib;
>
<!--end of appendix.module-->
<!ENTITY % chapter.module "INCLUDE">
<!ATTLIST chapter
%label.attrib;
%status.attrib;
%common.attrib;
%chapter.role.attrib;
%local.chapter.attrib;
>
<!--end of chapter.module-->

<!ENTITY % appendix.attlist "INCLUDE">
<!ATTLIST appendix attlist
%label.attrib;
%status.attrib;
%common.attrib;
%appendix.role.attrib;
%local.appendix.attrib;
>
<!--end of appendix.attlist-->
<!--end of appendix.module-->
<!ENTITY % chapter.attlist "INCLUDE">
<!ATTLIST chapter attlist
%label.attrib;
%status.attrib;
%common.attrib;
%chapter.role.attrib;
%local.chapter.attrib;
>
<!--end of chapter.attlist-->
<!--end of chapter.module-->

<!ENTITY % dot.title.content "INCLUDE">
<!ATTLIST dot
%label.attrib;
%status.attrib;
%common.attrib;
%dot.role.attrib;
%local.dot.attrib;
>
<!--end of dot.title.content-->
<!--end of dot.content.module-->

<!ENTITY % dotnav.class "INCLUDE">
<!ATTLIST dotnav
%label.attrib;
%status.attrib;
%common.attrib;
%dotnav.role.attrib;
%local.dotnav.attrib;
>
<!--end of dotnav.class-->
<!--end of dotnav.module-->
<!ENTITY % dotnav.content "INCLUDE">
<!ATTLIST dotnav content
%label.attrib;
%status.attrib;
%common.attrib;
%dotnav.role.attrib;
%local.dotnav.attrib;
>
<!--end of dotnav.content-->
<!--end of dotnav.content.module-->

<!ENTITY % index.component "INCLUDE">
<!ATTLIST index
%label.attrib;
%status.attrib;
%common.attrib;
%index.role.attrib;
%local.index.attrib;
>
<!--end of index.component-->
<!--end of index.component.module-->
<!ENTITY % index.component.content "INCLUDE">
<!ATTLIST index.component
%label.attrib;
%status.attrib;
%common.attrib;
%index.role.attrib;
%local.index.attrib;
>
<!--end of index.component.content-->
<!--end of index.component.content.module-->

<!ENTITY % indexnav.class "INCLUDE">
<!ATTLIST indexnav
%label.attrib;
%status.attrib;
%common.attrib;
%indexnav.role.attrib;
%local.indexnav.attrib;
>
<!--end of indexnav.class-->
<!--end of indexnav.module-->
<!ENTITY % indexnav.content "INCLUDE">
<!ATTLIST indexnav
%label.attrib;
%status.attrib;
%common.attrib;
%indexnav.role.attrib;
%local.indexnav.attrib;
>
<!--end of indexnav.content-->
<!--end of indexnav.content.module-->
<!-- Note that Part was to have its content model reduced in V4.0. This change will not be made after all. -->

<!ENTITY % local.part.attrib ""
<!ENTITY % part.role.attrib "%role.attrib;"
<!-- Renderas: Indicates the format in which the heading should appear -->
Open Source Used In Cisco Modeling Labs 2.4 8988
Found in path(s):
* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.0/dbhierx.mod

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This module contains the entity declarations for the standard ISO entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.5//EN"
"dbcentx.mod">
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<![%dbcent;

<!ENTITY % ISOamsa.module "INCLUDE">
<!ENTITY % ISOamsa.module; [
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations/EN">
<!--end of ISOamsa.module-->
]

<!ENTITY % ISOamsb.module "INCLUDE">
<!ENTITY % ISOamsb.module; [
<!ENTITY % ISOamsb PUBLIC
<!--end of ISOamsb.module-->
]

<!ENTITY % ISOamsc.module "INCLUDE">
<!ENTITY % ISOamsc.module; [
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters/EN">
<!--end of ISOamsc.module-->
]

<!ENTITY % ISOamsn.module "INCLUDE">
<!ENTITY % ISOamsn.module; [
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Negated Relations/EN">
<!--end of ISOamsn.module-->
]

<!ENTITY % ISOamso.module "INCLUDE">
<!ENTITY % ISOamso.module; [
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary/EN">
<!--end of ISOamso.module-->
]

<!ENTITY % ISOamso.module "INCLUDE">
<!ENTITY % ISOamso.module; [
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations/EN">
<!--end of ISOamso.module-->
]
<!ENTITY % ISObox.module "INCLUDE">
<![ %ISObox.module; [ "ISO 8879:1986//ENTITIES Box and Line Drawing//EN" ]]> 

<!ENTITY % ISOcyr1.module "INCLUDE">
<![ %ISOcyr1.module; [ "ISO 8879:1986//ENTITIES Russian Cyrillic//EN" ]]> 

<!ENTITY % ISOcyr2.module "INCLUDE">
<![ %ISOcyr2.module; [ "ISO 8879:1986//ENTITIES Non-Russian Cyrillic//EN" ]]> 

<!ENTITY % ISOdia.module "INCLUDE">
<![ %ISOdia.module; [ "ISO 8879:1986//ENTITIES Diacritical Marks//EN" ]]> 

<!ENTITY % ISOgrk1.module "INCLUDE">
<![ %ISOgrk1.module; [ "ISO 8879:1986//ENTITIES Greek Letters//EN" ]]> 

<!ENTITY % ISOgrk2.module "INCLUDE">
<![ %ISOgrk2.module; [ "ISO 8879:1986//ENTITIES Monotoniko Greek//EN" ]]> 

<!ENTITY % ISOgrk3.module "INCLUDE">
<![ %ISOgrk3.module; [ "ISO 8879:1986//ENTITIES Greek Symbols//EN" ]]> 

<!ENTITY % ISOgrk4.module "INCLUDE">
<![ %ISOgrk4.module; [ "ISO 8879:1986//ENTITIES Alternative Greek Symbols//EN" ]]> 

---

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Open Source Used in Cisco Modeling Labs 2.4  9002

<![%ISOtech.module; [%ISOtech; ]]>  

<!-- End of DocBook character entity sets module V4.5 ..................... -->
<!-- ...................................................................... -->

Found in path(s):
* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.5/dbcentx.mod
No license file was found, but licenses were detected in source scan.

<!-- ................................................................. -->
<!-- DocBook XML information pool module V4.2 ......................... -->
<!-- File dbpoolx.mod .................................................. -->

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Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbpoolx.mod,v 1.46 2002/07/17 15:26:16 nwalsh Exp $

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information, see http://www.oasis-open.org/docbook/.

<!-- ................................................................. -->
<!-- This module contains the definitions for the objects, inline
elements, and so on that are available to be used as the main
content of DocBook documents. Some elements are useful for general
This module has the following dependencies on other modules:

- It assumes that a `%notation.class;` entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

- It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.2//EN"
"dbpoolx.mod">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
<!DOCTYPE html>
<html><head></head><body><pre>%ebnf.inline.hook;
%local.tech.char.class;">

&lt;!ENTITY % local.base.char.class ""&gt;
&lt;!ENTITY % base.char class
"anchor %local.base.char.class;"&gt;

&lt;!ENTITY % local.docinfo.char.class ""&gt;
&lt;!ENTITY % docinfo.char.class
"author|authorinitials|corauthor|modespec|othercredit
|productname|productnumber|revhistory
%local.docinfo.char.class;"&gt;

&lt;!ENTITY % local.other.char.class ""&gt;
&lt;!ENTITY % other.char.class
"remark|subscript|superscript %local.other.char.class;"&gt;

&lt;!ENTITY % local.inlineobj.char.class ""&gt;
&lt;!ENTITY % inlineobj.char.class
"inlinegraphic|inlinemediaobject|inlineequation %local.inlineobj.char.class;"&gt;

<!--[if !IE]><!-->
<!-- Entities for content models ........................................
<!-- For redeclaring entities that are declared after this point while
retaining their references to the entities that are declared before
this point -->

<!--[if %dbpool.redecl.module:]]>
<!--[if !IE]--> Defining dbpool here makes some buggy XML parsers happy. --&gt;
<!--[if !IE]>
%dbpool;
<!--[if !IE]-->

&lt;!-- Object-level mixtures .............................................
&lt;!--
list admn line synp para infm form cmpd gen desc
Component mixture X X X X X X X X X
Sidebar mixture X X X X X X X a X
Footnote mixture X X X X X
Example mixture X X X X X
Highlights mixture X X X
Paragraph mixture X X X
</pre></body></html>
Admonition mixture X X X X X X b c
Figure mixture X X X
table entry mixture X X X X d
Glossary def mixture X X X X X e
Legal notice mixture X X X X f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

-->

<!ENTITY % local.component.mix "">
<!ENTITY % component.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;%compound.class;
|%genobj.class;%descobj.class;
|endxterm.class; |beginpage
%local.component.mix;">

<!ENTITY % local.sidebar.mix "">
<!ENTITY % sidebar.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;procedure
|%genobj.class;
|endxterm.class; |beginpage
%local.sidebar.mix;">

<!ENTITY % local.qandaset.mix "">
<!ENTITY % qandaset.mix
"%list.class; |%admon.class;
|%linespecific.class;%synop.class;
|%para.class;%informal.class;
|%formal.class;procedure
|%genobj.class;
|endxterm.class;
%local.qandaset.mix;">

<!ENTITY % local.revdescription.mix "">
<!ENTITY % revdescription.mix
"%list.class;%admon.class;
|%linespecific.class;%synop.class;
<!-- %formal.class; is explicitly excluded from many contexts in which paragraphs are used -->

<!ENTITY % local.paragraph.mix "">
<!ENTITY % paragraph.mix
"%list.class; [%admon.class;
|%line-specific.class;
|%informal.class;
|%formal.class;
|procedure|sidebar|anchor|bridgehead|remark
|%ndxterm.class; |beginpage
%local.paragraph.mix;">

<!ENTITY % local.admonition.mix "">
<!ENTITY % admonition.mix
"%list.class;
|%line-specific.class;
|%synop.class;
|%para.class; [%informal.class;
|%ndxterm.class; |beginpage
%local.admonition.mix;">

<!ENTITY % local.footnote.mix "">
<!ENTITY % footnote.mix
"%list.class;
|%line-specific.class; [%synop.class;
|%para.class; [%informal.class;
%local.footnote.mix;">

<!ENTITY % local.example.mix "">
<!ENTITY % example.mix
"%list.class;
|%line-specific.class; [%synop.class;
|%para.class; [%informal.class;
%local.example.mix;">

<!ENTITY % local.highlights.mix "">
<!ENTITY % highlights.mix
"%list.class;
|%admon.class;
|%para.class;
|%ndxterm.class;
%local.highlights.mix;">

<!ENTITY % local.para.mix "">
<!ENTITY % para.mix
"%list.class; [%admon.class;
|%line-specific.class;
|%informal.class;
|%formal.class;
%local.para.mix;">

<!ENTITY % local.admonition.mix "">
<!ENTITY % admonition.mix
"%list.class;
|%line-specific.class; [%synop.class;
|%para.class; [%informal.class;
|%formal.class; [%procedure; [sidebar|anchor|bridgehead|remark
|%ndxterm.class; |beginpage
%local.admonition.mix;"}
a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

<!ENTITY % forminlines.hook "">
<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix "#PCDATA
[%xref.char.class];%gen.char.class;
[%link.char.class];%tech.char.class;
[%base.char.class];%docinfo.char.class;
[%other.char.class];%inlineobj.char.class;
[%synop.class];
[%ndxterm.class];%beginpage
%forminlines.hook;
%local.para.char.mix;">

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix "#PCDATA
[%xref.char.class];%gen.char.class;
[%link.char.class];%tech.char.class;
[%base.char.class];%docinfo.char.class;
[%other.char.class];%inlineobj.char.class;
[%ndxterm.class];
%local.title.char.mix;">

<!ENTITY % local.ndxterm.char.mix "">
<!ENTITY % ndxterm.char.mix "#PCDATA
[%xref.char.class];%gen.char.class;
[%link.char.class];%tech.char.class;
[%base.char.class];%docinfo.char.class;
[%other.char.class];%inlinegraphic|inlinemediaobject
%local.ndxterm.char.mix;">
<!ENTITY % local.cptr.char.mix "">
<!ENTITY % cptr.char.mix
"#PCDATA
|%link.char.class;|%tech.char.class;
|%base.char.class;
|%other.char.class;inlinegraphic|linemediaobject
|%ndxterm.class; |beginpage
%local.cptr.char.mix;">n

<!ENTITY % local.smallep.ptr.char.mix "">
<!ENTITY % smallep.ptr.char.mix
"#PCDATA
|replaceable
|inlinegraphic|linemediaobject
|%ndxterm.class; |beginpage
%local.smallep.ptr.char.mix;">n

<!ENTITY % local.word.char.mix "">
<!ENTITY % word.char.mix
"#PCDATA
|acronym|emphasis|trademark
|%link.char.class;
|%base.char.class;
|%other.char.class;inlinegraphic|linemediaobject
|%ndxterm.class; |beginpage
%local.word.char.mix;">n

<!ENTITY % local.docinfo.char.mix "">
<!ENTITY % docinfo.char.mix
"#PCDATA
|%link.char.class;
|emphasis|trademark
|replaceable
|%other.char.class;inlinegraphic|linemediaobject
|%ndxterm.class;
%local.docinfo.char.mix;">n
</!ENTITY % bibliocomponent.mix (see Bibliographic section, below)-->
</!ENTITY % person.ident.mix (see Bibliographic section, below)-->

</!-- Entities for attributes and attribute components ..................... -->
</!-- Effectivity attributes ................................................. -->

</!-- Arch: Computer or chip architecture to which element applies; no
default -->
<!ENTITY % arch.attrib "archCDATA#IMPLIED">

<!ENTITY % condition.attrib "conditionCDATA#IMPLIED">

<!ENTITY % conformance.attrib "conformanceNM_TOKENS#IMPLIED">

<!ENTITY % os.attrib "osCDATA#IMPLIED">

<!ENTITY % revision.attrib "revisionCDATA#IMPLIED">

<!ENTITY % security.attrib "securityCDATA#IMPLIED">

<!ENTITY % userlevel.attrib "userlevelCDATA#IMPLIED">

<!ENTITY % vendor.attrib "vendorCDATA#IMPLIED">

<!ENTITY % local.effективность attrib "">
<!ENTITY % effective attribution entity "">

<!ENTITY % arch.attrib "archCDATA#IMPLIED">

<!ENTITY % condition.attrib "conditionCDATA#IMPLIED">

<!ENTITY % conformance.attrib "conformanceNM_TOKENS#IMPLIED">

<!ENTITY % os.attrib "osCDATA#IMPLIED">

<!ENTITY % revision.attrib "revisionCDATA#IMPLIED">

<!ENTITY % security.attrib "securityCDATA#IMPLIED">

<!ENTITY % userlevel.attrib "userlevelCDATA#IMPLIED">

<!ENTITY % vendor.attrib "vendorCDATA#IMPLIED">

<!ENTITY % local.effективность attrib "">
<!ENTITY % effective attribution entity " ">
%os.attrib;
%revision.attrib;
  %security.attrib;
%userlevel.attrib;
%vendor.attrib;
%local.effectivity.attrib;"
>
<!-- Common attributes .................................................... -->

<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib
"idID#IMPLIED">

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib
"idID#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib
"langCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib
"remapCDATA#IMPLIED">

<!-- Role: New role of element in local environment; no default -->

<!ENTITY % role.attrib
"roleCDATA#IMPLIED">

<!-- XRefLabel: Alternate labeling string for XRef text generation; default is usually title or other appropriate label text already contained in element -->

<!ENTITY % xreflabel.attrib
The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below.
Open Source Used In Cisco Modeling Labs 2.4  9034
Open Source Used in Cisco Modeling Labs 2.4 9041
Open Source Used In Cisco Modeling Labs 2.4  9044
<ENTITY % glossentry.content.module "INCLUDE">  
<![%glossentry.content.module;]  
<!ENTITY % glossentry.module "INCLUDE">  
<![%glossentry.module;]  
<!ENTITY % local.glossentry.attrib "">  
<!ENTITY % glossentry.role.attrib "%role.attrib;">  

<!ENTITY % glossentry.element "INCLUDE">  
<![%glossentry.element;]  
<!ELEMENT glossentry %ho; (glossterm, acronym?, abbrev?,  
(ndxterm.class;)*,  
revhistory?, (glosssee|glossdef+)>)  
<!!-- SortAs: String by which the GlossEntry is to be sorted  
(alphabetized) in lieu of its proper content -->  

<!ENTITY % glossentry.attlist "INCLUDE">  
<![%glossentry.attlist;]  
<!ATTLIST glossentry  
sortas CDATA #IMPLIED  
%common.attrib;  
%glossentry.role.attrib;  
%local.glossentry.attrib;  
>
<!ENTITY % glossseealso.module "INCLUDE">
<![%glossseealso.module;[
<!ENTITY % local.glossseealso.attrib "">
<!ENTITY % glossseealso.role.attrib "%role.attrib;">

<!ENTITY % glossseealso.element "INCLUDE">
<![%glossseealso.element;[
<!ELEMENT glossseealso %ho; (%para.char.mix;)*>
<!--end of glossseealso.element-->
]]>
<!-- OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSeeAlso -->

<![%glossseealso.attlist;[
<!ATTLIST glossseealso
othertermIDREF#IMPLIED
%common.attrib;
%glossseealso.role.attrib;
%local.glossseealso.attrib;
>
<!--end of glossseealso.attlist-->
]]>
<!--end of glossseealso.module-->
]]>
<![%glossentry.content.module;[
<!ENTITY % itemizedlist.module "INCLUDE">
<![%itemizedlist.module;[
<!ENTITY % local.itemizedlist.attrib "">
<!ENTITY % itemizedlist.role.attrib "%role.attrib;">

<![%itemizedlist.element "INCLUDE">
<![%itemizedlist.element;[
<!ELEMENT itemizedlist %ho; (blockinfo?, (%formalobject.title.content;)?,
(listpreamble.mix;)*, listitem+)>
<!--end of itemizedlist.element-->
]]>
<!-- Spacing: Whether the vertical space in the list should be compressed -->
<!-- Mark: Keyword, e.g., bullet, dash, checkbox, none; -->
list of keywords and defaults are implementation specific -->

<!ENTITY % itemizedlist.attlist "INCLUDE">
<![%itemizedlist.attlist;]
<!ATTLIST itemizedlist	spacing (normal |compact) #IMPLIED
%mark.attrib;
%common.attrib;
%itemizedlist.role.attrib;
%local.itemizedlist.attrib;
>
<!--end of itemizedlist.attlist-->
<!--end of itemizedlist.module-->

<!ENTITY % orderedlist.module "INCLUDE">
<![%orderedlist.module;]
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "%role.attrib;">n

<!ENTITY % orderedlist.attlist "INCLUDE">
<![%orderedlist.attlist;]
<!ATTLIST orderedlist
numeration (arabic |upperalpha |loweralpha |upperroman |lowerroman) #IMPLIED
%common.attrib;
%orderedlist.role.attrib;
%local.orderedlist.attrib;
>
<!--end of orderedlist.attlist-->
<!--end of orderedlist.module-->

<!ELEMENT orderedlist %ho; (blockinfo?, (%formalobject.title.content;)?,
(listpreamble.mix;)*, listitem+)>
<!--end of orderedlist.element-->
</!ELEMENT orderedlist>
</!ENTITY % orderedlist.element;>
<!ENTITY % orderedlist.element "INCLUDE">
<![%orderedlist.element;]

<!ELEMENT orderedlist %ho; (blockinfo?, (%formalobject.title.content;)?,
(listpreamble.mix;)*, listitem+)>
<!--end of orderedlist.element-->
</!ELEMENT orderedlist>
</!ENTITY % orderedlist.element;>

<!ENTITY % orderedlist.attlist "INCLUDE">
<![%orderedlist.attlist;]
<!ATTLIST orderedlist
numeration (arabic |upperalpha |loweralpha |upperroman |lowerroman) #IMPLIED
%common.attrib;
%orderedlist.role.attrib;
%local.orderedlist.attrib;
>
<!--end of orderedlist.attlist-->
<!--end of orderedlist.module-->

<!ENTITY % orderedlist.attlist "INCLUDE">
<![%orderedlist.attlist;]
<!ATTLIST orderedlist
numeration (arabic |upperalpha |loweralpha |upperroman |lowerroman) #IMPLIED
%common.attrib;
%orderedlist.role.attrib;
%local.orderedlist.attrib;
>
is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

<!ENTITY % simplelist.attlist "INCLUDE">
<![[%simplelist.attlist;[
<!ATTLIST simplelist
columnsCDATA#IMPLIED
type(inline|vert|horiz)"vert"
%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>
<!--end of simplelist.attlist-->]]>
<!--end of simplelist.module-->]]>

<!ENTITY % member.module "INCLUDE">
<![[%member.module;[
<!ENTITY % local.member.attrib ""->
<!ENTITY % member.role.attrib "%role.attrib;"->

<!ENTITY % member.element "INCLUDE">
<![[%member.element;[
<!ELEMENT member %ho; (%para.char.mix;)*>
<!--end of member.element-->]]>

<!ENTITY % member.attlist "INCLUDE">
<![[%member.attlist;[
<!ATTLIST member
%common.attrib;
%member.role.attrib;
%local.member.attrib;
>
<!--end of member.attlist-->]]>
<!--end of member.module-->]]>
<!--end of simplelist.content.module-->]]>

<!-- VariableList ..................... -->

<!ENTITY % variablelist.content.module "INCLUDE">
<![[%variablelist.content.module;[
<!ENTITY % variablelist.module "INCLUDE">
<![[%variablelist.module;[
<!ENTITY % local.variablelist.attrib ""->
<!ENTITY % variablelist.role.attrib "%role.attrib;"->
< ENTITY % areaspec.element "INCLUDE">
< ![%areaspec.element;[
< !ENTITY areaspec %ho; ((area|areaset)+)>
< !--end of areaspec.element-->]]>

< !-- Units: global unit of measure in which coordinates in
this spec are expressed: 

- CALSPair "x1.y1 x2.y2": lower-left and upper-right
coordinates in a rectangle describing repro area in which
graphic is placed, where X and Y dimensions are each some
number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number
at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline
to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending
points of area in "linespecific" content that starts at
first position and ends at second position (including the
beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute
to get implementation-specific keyword

The default is implementation-specific; usually dependent on
the parent element (GraphicCO gets CALSPair, ProgramListingCO
and ScreenCO get LineColumn) -->
< !-- OtherUnits: User-defined units -->

< ENTITY % areaspec.attlist "INCLUDE">
< ![%areaspec.attlist;[
< !ATTLIST areaspec
  units(calspair
  |linecolumn
  |linerange
  |linecolumnpair
  |other)#IMPLIED
  otherunitsNMTOKEN#IMPLIED
  %common.attrib;
  %areaspec.role.attrib;
  %local.areaspec.attrib;
  >
  < !--end of areaspec.attlist-->]]>
< !--end of areaspec.module-->]]>
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSpec -->

<!ENTITY % areaset.attlist "INCLUDE">
<![%areaset.attlist;[!
<!ATTLIST areaset
%label.attrib;
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%iareaset.common.attrib;
%role.attrib;
%local.areaset.attrib;
>
<!--end of areaset.attlist-->]]>
<!--end of areaset.module-->]]>
<!--end of areaspec.content.module-->]]>

<!ENTITY % programlisting.module "INCLUDE">
<![%programlisting.module;[!
<!ENTITY % local.programlisting.attrib "">
<!ENTITY % programlisting.role.attrib "%role.attrib;">[!ENTITY % programlisting.element "INCLUDE">
<![%programlisting.element;[!
<!ELEMENT programlisting %ho; (%para.char.mix;|co|coref|lineannotation|textobject)*)
<!--end of programlisting.element-->]]>

<!ENTITY % programlisting.attrib "INCLUDE">
<![%programlisting.attrib;[!
<!ATTLIST programlisting
%width.attrib;
%linespecific.attrib;
%common.attrib;
%programlisting.role.attrib;
%local.programlisting.attrib;
>
<!--end of programlisting.attrib-->]]>
<!--end of programlisting.module-->]]>

<!ENTITY % literallayout.module "INCLUDE">
<![%literallayout.module;[!
<!ENTITY % local.literallayout.attrib "">
<!-- Graphical data can be the content of Graphic, or you can reference
an external file either as an entity (Entitref) or a filename
(Fileref). -->

<!ENTITY % graphic.module "INCLUDE">
<![%graphic.module;]
<!ENTITY % local.graphic.attrib "">
<!ENTITY % graphic.role.attrib "%role.attrib;">

<!ENTITY % graphic.element "INCLUDE">
<![%graphic.element;]
<!ELEMENT graphic %ho; EMPTY>
<!!--end of graphic.element-->]]>

<!ENTITY % graphic.attlist "INCLUDE">
<![%graphic.attlist;]
<!ATTLIST graphic
%graphics.attrib;
%common.attrib;
%graphic.role.attrib;
%local.graphic.attrib;
>
<!!--end of graphic.attlist-->]]>
<!!--end of graphic.module-->]]>

<!ENTITY % inlinegraphic.module "INCLUDE">
<![%inlinegraphic.module;]
<!ENTITY % local.inlinegraphic.attrib "">
<!ENTITY % inlinegraphic.role.attrib "%role.attrib;">

<!ENTITY % inlinegraphic.element "INCLUDE">
<![%inlinegraphic.element;]
<!ELEMENT inlinegraphic %ho; EMPTY>
<!!--end of inlinegraphic.element-->]]>

<!ENTITY % inlinegraphic.attlist "INCLUDE">
<![%inlinegraphic.attlist;]
<!ATTLIST inlinegraphic
%graphics.attrib;
%common.attrib;
%inlinegraphic.role.attrib;
%local.inlinegraphic.attrib;
>
<!!--end of inlinegraphic.attlist-->]]>
<!!--end of inlinegraphic.module-->]]>

<!ENTITY % mediaobject.content.module "INCLUDE">
<![%mediaobject.content.module;]
Open Source Used In Cisco Modeling Labs 2.4  9067
scaleCDATA#IMPLIED
scalefit%yesorno.attvals;
#IMPLIED
%objectdata.attrib;
%common.attrib;
%videodata.role.attrib;
%local.videodata.attrib;
>
<!--end of videodata.attlist-->
<!--end of videodata.module-->

<!ENTITY % audiodata.module "INCLUDE">
<![ %audiodata.module; [ 
<!ENTITY % local.audiodata.attrib "">
<!ENTITY % audiodata.role.attrib "%role.attrib;">

<!ENTITY % audiodata.element "INCLUDE">
<![ %audiodata.element; [ 
<!ELEMENT audiodata %ho; EMPTY>
<!--end of audiodata.element-->

<!ENTITY % audiodata.attlist "INCLUDE">
<![ %audiodata.attlist; [ 
<!ATTLIST audiodata
%objectdata.attrib;
%common.attrib;
%audiodata.role.attrib;
%local.audiodata.attrib;
>
<!--end of audiodata.attlist-->
<!--end of audiodata.module-->

<!ENTITY % imagedata.module "INCLUDE">
<![ %imagedata.module; [ 
<!ENTITY % local.imagedata.attrib "">
<!ENTITY % imagedata.role.attrib "%role.attrib;">

<!ENTITY % imagedata.element "INCLUDE">
<![ %imagedata.element; [ 
<!ELEMENT imagedata %ho; EMPTY>
<!--end of imagedata.element-->

<!ENTITY % imagedata.attlist "INCLUDE">
<![ %imagedata.attlist; [ 
<!--Width: Same as CALS reprowid (desired width)->
<!--Depth: Same as CALS reprodep (desired depth)->
<!--Align: Same as CALS hplace with 'none' removed; #IMPLIED means
This PE provides a mechanism for replacing equation content, perhaps adding a new or different model (e.g., MathML).
<![%exchange.table.module;[
<!!--  Add common attributes and the Label attribute to Table and -->
<!!-- InformalTable. -->
<!ENTITY % bodyatt "%common.attrib;
%label.attrib;
%tables.role.attrib;">  

<!ENTITY % common.table.attribs "%bodyatt;">  

<!-- Add common attributes to TGroup, ColSpec, TBody, THead, Row, Entry -->

<!ENTITY % tbl.tgroup.att "%common.attrib;">  
<!ENTITY % tbl.colspec.att "%common.attrib;">  
<!ENTITY % tbl.tbody.att "%common.attrib;">  
<!ENTITY % tbl.thead.att "%common.attrib;">  
<!ENTITY % tbl.row.att "%common.attrib;">  
<!ENTITY % tbl.entry.att "%common.attrib;">  

<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl 
"(blockinfo?, (%formalobject.title.content;), (%ndxterm.class;)*, 
textobject*, 
   (graphic+|mediaobject+|tgroup+))">  

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "(%para.char.mix; | %tabentry.mix:)*">  

<!-- Reference OASIS Exchange Table Model -->
<!ENTITY % tablemodel PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN" "soextblx.dtd">]]>

%tablemodel;  

<!--end of table.module-->]]>

<!ENTITY % informaltable.module "INCLUDE">  
<![%informaltable.module;]

<!-- Note that InformalTable is dependent on some of the entity declarations that customize Table. -->

<!ENTITY % local.informaltable.attrib "">
Frame, Colsep, and Rowsep must be repeated because they are not in entities in the table module.

Includes TabStyle, ToCentry, ShortEntry, Orient, PgWide.

Includes Label.

Includes common attributes.

Synopsis
supply, e.g. \{g1|g2|g3\}, Plain (required to supply, e.g. \{g1|g2|g3\}, OptMult (can supply zero or more, e.g. \[[g1|g2|g3]\]), or ReqMult (must supply one or more, e.g. \{{g1|g2|g3}\}) -->
<!-- Rep: whether Group is repeatable: Norepeat (e.g. group without ellipsis; the default), or Repeat (e.g. group... -->

<!ENTITY % group.attlist "INCLUDE">
<![%group.attlist;]
<!ATTLIST group
  choice(opt
  |req
  |plain) 'opt'
  rep(norepeat
  |repeat)'norepeat'
%common.attrib;
%group.role.attrib;
%local.group.attrib;
>
<!--end of group.attlist-->]]>
<!--end of group.module-->]]>

<!ENTITY % sbr.module "INCLUDE">
<![%sbr.module;]
<!ENTITY % local.sbr.attrib ""
<!ENTITY % sbr.role.attrib "%role.attrib;">

<!ENTITY % sbr.element "INCLUDE">
<![%sbr.element;]
<!ELEMENT sbr %ho; EMPTY>
<!--end of sbr.element-->]]>

<!ENTITY % sbr.attlist "INCLUDE">
<![%sbr.attlist;]
<!ATTLIST sbr
  %common.attrib;
  %sbr.role.attrib;
  %local.sbr.attrib;
>
<!--end of sbr.attlist-->]]>
<!--end of sbr.module-->]]>

<!ENTITY % synopfragmentref.module "INCLUDE">
<![%synopfragmentref.module;]
<!ENTITY % local.synopfragmentref.attrib ""
<!ENTITY % synopfragmentref.role.attrib "%role.attrib;">
<!ENTITY % void.attlist "INCLUDE">
<![void.attlist:]
<!ATTLIST void
%common.attrib;
%void.role.attrib;
%local.void.attrib;
>
<![!--end of void.attlist--]]>
<![!--end of void.module--]]>

<!ENTITY % varargs.module "INCLUDE">
<![varargs.module:]
<!ENTITY % local.varargs.attrib "">
<!ENTITY % varargs.role.attrib "%role.attrib;"> 

<!ENTITY % varargs.element "INCLUDE">
<![varargs.element:]
<!ELEMENT varargs %ho; EMPTY>
<![!--end of varargs.element--]]>

<!ENTITY % varargs.attlist "INCLUDE">
<![varargs.attlist:]
<!ATTLIST varargs
%common.attrib;
%varargs.role.attrib;
%local.varargs.attrib;
>
<![!--end of varargs.attlist--]]>
<![!--end of varargs.module--]]>

<!-- Processing assumes that only one Parameter will appear in a
ParamDef, and that FuncParams will be used at most once, for
providing information on the "inner parameters" for parameters that
are pointers to functions. -->

<!ENTITY % paramdef.module "INCLUDE">
<![paramdef.module:]
<!ENTITY % local.paramdef.attrib "">
<!ENTITY % paramdef.role.attrib "%role.attrib;"> 

<!ENTITY % paramdef.element "INCLUDE">
<![paramdef.element:]
<!ELEMENT paramdef %ho; (#PCDATA
type
| replaceable
| parameter
| funcparams)*>
The document information elements include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies.
<!ENTITY % street.module "INCLUDE">
<!ENTITY % street.module;
<!ENTITY % local.street.attrib "">
<!ENTITY % street.role.attrib "%role.attrib;">

<!ENTITY % street.element "INCLUDE">
<!ENTITY % street.element;
<!ELEMENT street %ho; (%docinfo.char.mix;)*>
<!--end of street.element-->

<!ENTITY % street.attlist "INCLUDE">
<!ENTITY % street.attlist;
<!ATTLIST street
%common.attrib;
%street.role.attrib;
%local.street.attrib;
>
<!--end of street.attlist-->

<!ENTITY % pob.module "INCLUDE">
<!ENTITY % pob.module;
<!ENTITY % local.pob.attrib "">
<!ENTITY % pob.role.attrib "%role.attrib;">

<!ENTITY % pob.element "INCLUDE">
<!ENTITY % pob.element;
<!ELEMENT pob %ho; (%docinfo.char.mix;)*>
<!--end of pob.element-->

<!ENTITY % pob.attlist "INCLUDE">
<!ENTITY % pob.attlist;
<!ATTLIST pob
%common.attrib;
%pob.role.attrib;
%local.pob.attrib;
>
<!--end of pob.attlist-->

<!ENTITY % postcode.module "INCLUDE">
<!ENTITY % postcode.module;
<!ENTITY % local.postcode.attrib "">
<!ENTITY % postcode.role.attrib "%role.attrib;">

<!ENTITY % postcode.element "INCLUDE">

---

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<!ENTITY % affiliation.role.attrib "%role.attrib;"> 

<!ENTITY % affiliation.element "INCLUDE"> 
<![%affiliation.element;]
<!ELEMENT affiliation %ho; (shortaffil?, jobtitle*, orgname?, orgdiv*, 
address*)>
<![!--end of affiliation.element-->]]>

<!ENTITY % affiliation.attlist "INCLUDE"> 
<![%affiliation.attlist;]
<!ATTLIST affiliation 
%common.attrib; 
%affiliation.role.attrib; 
%local.affiliation.attrib; 
>
<![!--end of affiliation.attlist-->]]
<![!--end of affiliation.module-->]]>

<!ENTITY % shortaffil.module "INCLUDE"> 
<![%shortaffil.module;]
<!ENTITY % local.shortaffil.attrib "">
<!ENTITY % shortaffil.role.attrib "%role.attrib;"> 

<!ENTITY % shortaffil.element "INCLUDE"> 
<![%shortaffil.element;]
<!ELEMENT shortaffil %ho; (%docinfo.char.mix;)*>
<![!--end of shortaffil.element-->]]>

<!ENTITY % shortaffil.attlist "INCLUDE"> 
<![%shortaffil.attlist;]
<!ATTLIST shortaffil %common.attrib; 
%shortaffil.role.attrib; 
%local.shortaffil.attrib; 
>
<![!--end of shortaffil.attlist-->]]
<![!--end of shortaffil.module-->]]>

<!ENTITY % jobtitle.module "INCLUDE"> 
<![%jobtitle.module;]
<!ENTITY % local.jobtitle.attrib "">
<!ENTITY % jobtitle.role.attrib "%role.attrib;"> 

<!ENTITY % jobtitle.element "INCLUDE"> 
<![%jobtitle.element;]
<!ELEMENT jobtitle %ho; (%docinfo.char.mix;)*>
<![!--end of jobtitle.element-->]]>
<!ENTITY % local.confdates.attrib;>
<!--end of confdates.attlist-->
<!ENTITY % conftitle.module "INCLUDE">
<!--end of conftitle.module-->
<!ENTITY % confnum.module "INCLUDE">
<!--end of confnum.module-->
<!-- Address (defined elsewhere in this section)-->
<!ENTITY % confsponsor.module "INCLUDE">
Open Source Used In Cisco Modeling Labs 2.4 9106
|isbn
|issn
|libraryofcongress
|pubnumber
|other)	#IMPLIED
otherclassCDATA#IMPLIED"
>
</!ENTITY % biblioid.module "INCLUDE">
<![biblioid.module:]
<!ENTITY % local.biblioid.attrib "">
<!ENTITY % biblioid.role.attrib ">%role.attrib;">

<!ENTITY % biblioid.element "INCLUDE">
<![biblioid.element:]
<!ELEMENT biblioid %ho; (%docinfo.char.mix;)*>
<!--end of biblioid.element-->
]]>

<!ENTITY % biblioid.attlist "INCLUDE">
<![biblioid.attlist:]
<!ATTLIST biblioid
%biblio.class.attrib;
%common.attrib;
%biblioid.role.attrib;
%local.biblioid.attrib;
>
<!--end of biblioid.attlist-->
]]>
<!--end of biblioid.module-->
]]>

<!-- CiteBiblioid .................. -->

<!ENTITY % citebiblioid.module "INCLUDE">
<![citebiblioid.module:]
<!ENTITY % local.citebiblioid.attrib "">
<!ENTITY % citebiblioid.role.attrib ">%role.attrib;">

<!ENTITY % citebiblioid.element "INCLUDE">
<![citebiblioid.element:]
<!ELEMENT citebiblioid %ho; (%docinfo.char.mix;)*>
<![!--end of citebiblioid.element--]>]]>

<!ENTITY % citebiblioid.attlist "INCLUDE">
<![citebiblioid.attlist:]
<!ATTLIST citebiblioid
%biblio.class.attrib;
%common.attrib;
%citebiblioid.role.attrib;
%local.citebiblioid.attrib;
%local.guisubmenu.attrib;
>
<!--end of guisubmenu.attlist-->

<!ENTITY % hardware.module "INCLUDE">
<![hardware.module;]
<!ENTITY % local.hardware.attrib "">
<!ENTITY % hardware.role.attrib "%role.attrib;"> 

<!ENTITY % hardware.element "INCLUDE">
<![hardware.element;]
<!ELEMENT hardware %ho; (%cptr.char.mix;)*>

<!ENTITY % hardware.attlist "INCLUDE">
<![hardware.attlist;]
<!ATTLIST hardware
%moreinfo.attrib;
%common.attrib;
%hardware.role.attrib;
%local.hardware.attrib;
>
<!--end of hardware.attlist-->

<!ENTITY % interface.module "INCLUDE">
<![interface.module;]
<!ENTITY % local.interface.attrib "">
<!ENTITY % interface.role.attrib "%role.attrib;"> 

<!ENTITY % interface.element "INCLUDE">
<![interface.element;]
<!ELEMENT interface %ho; (%smallcptr.char.mix;|accel)*>

<!ENTITY % interface.attlist "INCLUDE">
<![interface.attlist;]
<!ATTLIST interface
%moreinfo.attrib;
%common.attrib;
%interface.role.attrib;
%local.interface.attrib;
>
<!--end of interface.attlist-->

<!-- Class: Type of the Interface item; no default -->

<!ENTITY % interface.module "INCLUDE">
<![interface.module;]
<!ENTITY % local.interface.attrib "">
<!ENTITY % interface.role.attrib "%role.attrib;"> 

<!ENTITY % interface.element "INCLUDE">
<![interface.element;]
<!ELEMENT interface %ho; (%smallcptr.char.mix;|accel)*>

<!-- Class: Type of the Interface item; no default -->
<ENTITY % medialabel.element "INCLUDE">
<![%medialabel.element;]
<ELEMENT medialabel %ho; (%smallcptr.char.mix;)*>
<!--end of medialabel.element-->

<!-- Class: Type of medium named by the element; no default -->

<!ENTITY % medialabel.attlist "INCLUDE">
<![%medialabel.attlist;[
<!ATTLIST medialabel class (cartridge | cdrom | disk | tape)#IMPLIED %common.attrib;
%medialabel.role.attrib;
%local.medialabel.attrib;
>
<!--end of medialabel.attlist-->
<!--end of medialabel.module-->

<!ENTITY % menuchoice.content.module "INCLUDE">
<![%menuchoice.content.module;[
<!ENTITY % menuchoice.module "INCLUDE">
<![%menuchoice.module;[
<!ENTITY % local.menuchoice.attrib "";
<!ENTITY % menuchoice.role.attrib "%role.attrib;">

<!ENTITY % menuchoice.element "INCLUDE">
<![%menuchoice.element;[
<ELEMENT menuchoice %ho; (shortcut?, (guibutton|guiicon|guilabel [guimenu|guimenuitem|guisubmenu][interface]+))>
<!--end of menuchoice.element-->

<!ENTITY % menuchoice.attlist "INCLUDE">
<![%menuchoice.attlist;[
<!ATTLIST menuchoice %moreinfo.attrib;
%common.attrib;
%menuchoice.role.attrib;
%local.menuchoice.attrib;
>
<!--end of menuchoice.attlist-->
<!--end of menuchoice.module-->

<!ENTITY % shortcut.module "INCLUDE">
<![%shortcut.module;[

---

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%common.attrib;
%prompt.role.attrib;
%local.prompt.attrib;
>
<!--end of prompt.attrlist-->

<!--end of prompt.module-->

<!--ENTITY % property.module "INCLUDE">
<![property.module;[
<!--ENTITY % local.property.attrib "";>  
<!--ENTITY % property.role.attrib "%role.attrib;">

<!--ENTITY % property.element "INCLUDE">
<![property.element;[
<!--ELEMENT property %ho; (%cptr.char.mix;)*>  
<!--end of property.element-->

<!--ENTITY % property.attlist "INCLUDE">
<![property.attlist;[
<!--ATTLIST property  
%moreinfo.attrib;  
%common.attrib;  
%property.role.attrib;  
%local.property.attrib;  
>  
<!--end of property.attlist-->

<!--end of property.module-->

<!--ENTITY % replaceable.module "INCLUDE">
<![replaceable.module;[
<!--ENTITY % local.replaceable.attrib "";>  
<!--ENTITY % replaceable.role.attrib "%role.attrib;">

<!--ENTITY % replaceable.element "INCLUDE">
<![replaceable.element;[
<!--ELEMENT replaceable %ho; (#PCDATA  
| %link.char.class;  
| optional  
| %base.char.class;  
| %other.char.class;  
| inlingraphic  
| [ inlinemediaobject  
| co]*)>  
<!--end of replaceable.element-->

<!-- Class: Type of information the element represents; no default -->
<!ENTITY % structname.element.Name "INCLUDE">
<![%structname.element;[
  <!ELEMENT structname %ho; (%smallcptr.char.mix;)*>
  <!--end of structname.element-->]]>

<!ENTITY % structname.attlist "INCLUDE">
<![%structname.attlist;[
  <!ATTLIST structname
    %common.attrib;
    %structname.role.attrib;
    %local.structname.attrib;
  >
  <!--end of structname.attlist-->
  <!--end of structname.module-->]]>

<!ENTITY % symbol.module "INCLUDE">
<![%symbol.module;[
  <!ENTITY % local.symbol.attrib "">
  <!ENTITY % symbol.role.attrib "%role.attrib;">  
  <!--end of symbol.module-->]]>

<!ENTITY % symbol.element "INCLUDE">
<![%symbol.element;[
  <!ELEMENT symbol %ho; (%smallcptr.char.mix;)*>
  <!--end of symbol.element-->]]>

<!-- Class: Type of symbol; no default -->

<!ENTITY % symbol.attlist "INCLUDE">
<![%symbol.attlist;[
  <!ATTLIST symbol
class(limit)#IMPLIED
    %common.attrib;
    %symbol.role.attrib;
    %local.symbol.attrib;
  >
  <!--end of symbol.attlist-->
  <!--end of symbol.module-->]]>

<!ENTITY % systemitem.module "INCLUDE">
<![%systemitem.module;[
  <!ENTITY % local.systemitem.attrib "">
  <!ENTITY % systemitem.role.attrib "%role.attrib;">  
  <!--end of systemitem.module-->]]>

<!ENTITY % systemitem.element "INCLUDE">
<![%systemitem.element;[
  <!ELEMENT systemitem %ho; (%cptr.char.mix; | acronym | co)*>
  <!--end of systemitem.element-->]]>
<!- Class: Type of system item the element names; no default -->

<!ENTITY % systemitem.attlist "INCLUDE">
<![%systemitem.attlist;[
<!ATTLIST systemitem
class(constant
|event
|eventhandler
|domainname
|fqdomainname
|ipaddress
|netmask
|etheraddress
|groupname
|library
|macro
|osname
|filesystem
|resource
|systemname
|username
|newsgroup)#IMPLIED
%moreinfo.attrib;
%common.attrib;
%systemitem.role.attrib;
%local.systemitem.attrib;
>
<!-end of systemitem.attlist--->]]>
<!-end of systemitem.module--->]]>

<!ENTITY % token.module "INCLUDE">
<![%token.module;[
<!ENTITY % local.token.attrib ""->
<!ENTITY % token.role.attrib "%role.attrib;"->

<!ENTITY % token.element "INCLUDE">
<![%token.element;[
<!ELEMENT token %ho; (%smallcptr.char.mix;)*>
<!-end of token.element--->]]>

<!ENTITY % token.attlist "INCLUDE">
<![%token.attlist;[
<!ATTLIST token
%common.attrib;
%token.role.attrib;
%local.token.attrib;
>
<!ENTITY % local.abbrev.attrib "">
<!ENTITY % abbrev.role.attrib "%role.attrib;">

<!ENTITY % abbrev.element "INCLUDE">
<![%abbrev.element;[
<!ELEMENT abbrev %ho; (%word.char.mix;)*>
<![!--end of abbrev.element--]>]]>

<!ENTITY % abbrev.attlist "INCLUDE">
<![%abbrev.attlist;[
<!ATTLIST abbrev
%common.attrib;
%abbrev.role.attrib;
%local.abbrev.attrib;
>]
<![!--end of abbrev.attlist--]>]]>

<!ENTITY % acronym.module "INCLUDE">
<![%acronym.module;[
<!ENTITY % local.acronym.attrib "">
<!ENTITY % acronym.role.attrib "%role.attrib;">

<!ENTITY % acronym.element "INCLUDE">
<![%acronym.element;[
<!ELEMENT acronym %ho; (%word.char.mix;)*
%acronym.exclusion;>
<![!--end of acronym.element--]>]]>

<!ENTITY % acronym.attlist "INCLUDE">
<![%acronym.attlist;[
<!ATTLIST acronym
%common.attrib;
%acronym.role.attrib;
%local.acronym.attrib;
>]
<![!--end of acronym.attlist--]>]]>

<!ENTITY % citation.module "INCLUDE">
<![%citation.module;[
<!ENTITY % local.citation.attrib "">
<!ENTITY % citation.role.attrib "%role.attrib;">

<!ENTITY % citation.element "INCLUDE">
<![%citation.element;[
<!ELEMENT citation %ho; (%para.char.mix;)*>
<![!--end of citation.element--]>]]>
Pubwork: Genre of published work cited; no default --

|book  |
|chapter  |
|part  |
|refentry  |
|section  |
|journal  |
|set  |
<!ENTITY % indexterm.content.module "INCLUDE">
<!ENTITY % indexterm.module "INCLUDE">
<!ENTITY % indexterm.attlist "INCLUDE">
<!ENTITY % indexterm.role.attrib "%role.attrib;">
Please direct all questions, bug reports, or suggestions for changes to the docbook@lists.oasis-open.org mailing list. For more information, see http://www.oasis-open.org/docbook/.

<!--

<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook Notations V4.2//EN"
"dbnotnx.mod">
%dbnotn;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
-->

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class
"BMP | CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI |
| EPS | EQN | FAX | GIF | GIF87a | GIF89a |
| JPG | JPEG | IGES | PCX |
| PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG |
| SVG |
| linespecific
%local.notation.class;">
"-//CompuServe//NOTATION Graphics Interchange Format 87a//EN"

<!NOTATION GIF89a PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 89a//EN”>
<!NOTATION JPSYSTEM "JPG”>
<!NOTATION JPEGSYSTEM "JPG”>
<!NOTATION IGESPUBLIC
<!NOTATION PCXPUBLIC
"/+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION ZSoft PCX bitmap//EN”>
<!NOTATION PICSYSTEM "PIC”>
<!NOTATION PNG SYSTEM "http://www.w3.org/TR/REC-png”>
<!NOTATION PSSYSTEM "PS”>
<!NOTATION SGMLPUBLIC
<!NOTATION TBLSYSTEM "TBL”>
<!NOTATION TEXPUBLIC
<!NOTATION TIFFSYSTEM "TIFF”>
<!NOTATION WMFPUBLIC
"/+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows Metafile//EN”>
<!NOTATION WPGSYSTEM "WPG”> <!--WordPerfect Graphic format-->
<!NOTATION SVGSYSTEM "http://www.w3.org/TR/SVG/”>
<!NOTATION linespecificSYSTEM “linespecific”>

<!-- End of DocBook notations module V4.2 ......................... -->
<!-- ...................................................................... -->

Found in path(s):
* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.2/dbnotnx.mod

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<!-- ................................................................. -->
<!-- DocBook document hierarchy module V4.3 ....................... -->
<!-- File dbhierx.mod ................................................... -->

Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbhierx.mod,v 1.29 2004/03/31 10:40:22 nwalsh Exp $

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<!-- ...................................................................... -->

<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!-- Entities for module inclusions ....................................... -->

<!-- ...................................................................... -->

<!-- Entities for module inclusions ....................................... -->

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- Entities for module inclusions ....................................... -->

<!ENTITY % dbhier PUBLIC "-//OASIS//ELEMENTS DocBook Document Hierarchy V4.3//EN" "dbhierx.mod">

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- Entities for module inclusions ....................................... -->

<!ENTITY % dbhier.redecl.module "IGNORE">

<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- Entities for module inclusions ....................................... -->
<ENTITY % local.appendix.class ""/>
<ENTITY % appendix.class "appendix %local.appendix.class;"/>

<ENTITY % local.article.class ""/>
<ENTITY % article.class "article %local.article.class;"/>

<ENTITY % local.book.class ""/>
<ENTITY % book.class "book %local.book.class;"/>

<ENTITY % local.chapter.class ""/>
<ENTITY % chapter.class "chapter %local.chapter.class;"/>

<ENTITY % local.index.class ""/>
<ENTITY % index.class "index|setindex %local.index.class;"/>

<ENTITY % local.refentry.class ""/>
<ENTITY % refentry.class "refentry %local.refentry.class;"/>

<ENTITY % local.section.class ""/>
<ENTITY % section.class "section %local.section.class;"/>

<ENTITY % local.nav.class ""/>
<ENTITY % nav.class "toc|lot|index|glossary|bibliography %local.nav.class;"/>

<!-- Redeclaration placeholder .............................................. -->

<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![%dbhier.redecl.module;[
<!-- Defining rdbhier here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier ""
%rdbhier;
<!--end of dbhier.redecl.module-->]]>

<!-- Entities for element mixtures ........................................ -->

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forms.hook ""
%entities;
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<!--end of sect2.attlist-->>
<!--end of sect2.module-->>

<!ENTITY % sect3.module "INCLUDE">
<![sect3.module:]
<!ENTITY % local.sect3.attrib "">
<!ENTITY % sect3.role.attrib "%role.attrib;">

<!ENTITY % sect3.element "INCLUDE">
<![sect3.element:]
<!ELEMENT sect3 %ho; (sect3info?, (%sect.title.content;), (%nav.class;)*,
(((%divcomponent.mix;)+,
((%refentry.class;)* | sect4* | simplesect*))
| (%refentry.class;)+ | sect4+ | simplesect+), (%nav.class;)*>
<!--end of sect3.element-->>

<!-- Renderas: Indicates the format in which the heading should appear -->

<!ENTITY % sect3.attlist "INCLUDE">
<![sect3.attlist:]
<!ATTLIST sect3 renderas(sect1
|sect2
|sect4
|sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect3.role.attrib;
%local.sect3.attrib;
>
<!--end of sect3.attlist-->>
<!--end of sect3.module-->>

<!ENTITY % sect4.module "INCLUDE">
<![sect4.module:]
<!ENTITY % local.sect4.attrib "">
<!ENTITY % sect4.role.attrib "%role.attrib;">

<!ENTITY % sect4.element "INCLUDE">
<![sect4.element:]
<!ELEMENT sect4 %ho; (sect4info?, (%sect.title.content;), (%nav.class;)*,
(((%divcomponent.mix;)+,
((%refentry.class;)* | sect5* | simplesect*))
| (%refentry.class;)+ | sect5+ | simplesect+), (%nav.class;)*>
<!--end of sect4.element-->>

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An Article is a chapter-level, stand-alone document that is often, but need not be, collected into a Book.
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$Id: calstblx.dtd,v 1.10 2000/08/27 15:12:41 nwalsh Exp $

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Found in path(s):
* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-
  4.1.2/calstblx.dtd
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<!-- ...................................................................... -->
<!-- DocBook character entities module V4.4 ............................... -->
<!-- File dbcentx.mod ..................................................... -->
O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbcentx.mod,v 1.28 2005/01/27 13:52:00 nwalsh Exp $

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information, see http://www.oasis-open.org/docbook/.
<!-- This module contains the entity declarations for the standard ISO
entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.4//EN"
"dbcentx.mod">
%dbcent;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.

-->

<!-- ![sgml.features;[ ]

<!ENTITY % ISOamsa.module "INCLUDE">
<![ %ISOamsa.module; [ ]
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![ %ISOamsb.module; [ ]
<!ENTITY % ISOamsb PUBLIC
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![ %ISOamsc.module; [ ]
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![ %ISOamsn.module; [ ]
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Negated Relations//EN">
<!--end of ISOamsn.module-->]]>
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<!-- ...................................................................... -->

<!-- This module contains the definitions for the objects, inline elements, and so on that are available to be used as the main content of DocBook documents. Some elements are useful for general publishing, and others are useful specifically for computer documentation.

This module has the following dependencies on other modules:

o It assumes that a %notation.class; entity is defined by the driver file or other high-level module. This entity is referenced in the NOTATION attributes for the graphic-related and ModeSpec elements.

o It assumes that an appropriately parameterized table module is available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.0//EN"
"dbpoolx.mod">
%dbpool;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ...................................................................... -->

<!-- General-purpose semantics entities ................................... -->

<!ENTITY % yesorno.attvals"CDATA">

<!-- Entities for module inclusions ....................................... -->

<!ENTITY % dbpool.redecl.module "IGNORE">
list admin line synp para infm form cmpd gen desc
Component mixture X X X X X X X X X
Sidebar mixture X X X X X X X a X
Footnote mixture X X X X X
Example mixture X X X X X
Highlights mixture X X X
Paragraph mixture X X X X
Admonition mixture X X X X X b c
Figure mixture X X X
Table entry mixture X X X X d
glossary def mixture X X X X X e
Legal notice mixture X X X X f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

-->

<!ENTITY % local.component.mix "">
<!ENTITY % component.mix
"%list.class;%admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;%compound.class;
%genobj.class;%ndxterm.class;
|beginpage
%local.component.mix;"> 

<!ENTITY % local.sidebar.mix "">
<!ENTITY % sidebar.mix
"%list.class;%admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;%procedure
%genobj.class;
%ndxterm.class;
|beginpage
%local.sidebar.mix;"> 

<!ENTITY % local.qandaset.mix "">
<!ENTITY % qandaset.mix
"%list.class; |%admon.class;
%linespecific.class;%synop.class;
%para.class;%informal.class;
%formal.class;%procedure
%genobj.class; 

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a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forminlines.hook "">

<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix "#PCDATA
|%xref.char.class|%gen.char.class;
|%link.char.class|%tech.char.class;
|%base.char.class|%docinfo.char.class;
|%other.char.class|%inlineobj.char.class;
|%synop.class;
|%ndxterm.class;|beginpage
 %forminlines.hook;
%local.para.char.mix;">

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix "#PCDATA
|%xref.char.class|%gen.char.class;
|%link.char.class|%tech.char.class;
|%base.char.class|%docinfo.char.class;
|%other.char.class|%inlineobj.char.class;
|%ndxterm.class;
%local.title.char.mix;">
<!ENTITY % formalobject.title.content "title, titleabbrev?">

<!-- Entities for attributes and attribute components ................................-->

<!-- Effectivity attributes .............................................................. -->

<!-- Arch: Computer or chip architecture to which element applies; no default -->

<!ENTITY % arch.attrib "archCDATA#IMPLIED">

<!-- Condition: General-purpose effectivity attribute -->

<!ENTITY % condition.attrib "conditionCDATA#IMPLIED">

<!-- Conformance: Standards conformance characteristics -->

<!ENTITY % conformance.attrib "conformanceNMTOKENS#IMPLIED">

<!-- OS: Operating system to which element applies; no default -->

<!ENTITY % os.attrib "osCDATA#IMPLIED">

<!-- Revision: Editorial revision to which element belongs; no default -->

<!ENTITY % revision.attrib "revisionCDATA#IMPLIED">

<!-- Security: Security classification; no default -->

<!ENTITY % security.attrib "securityCDATA#IMPLIED">

<!-- UserLevel: Level of user experience to which element applies; no default -->

<!ENTITY % userlevel.attrib "userlevelCDATA#IMPLIED">
<!-- Vendor: Computer vendor to which element applies; no default -->

<!ENTITY % vendor.attrib "vendorCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib "%arch.attrib;
  %condition.attrib;
%conformance.attrib;
%os.attrib;
%revision.attrib;
  %security.attrib;
%userlevel.attrib;
%vendor.attrib;
%local.effectivity.attrib;">

<!-- Common attributes .................................................... -->

<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib "idID#IMPLIED">

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib "idID#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib "langCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib "remapCDATA#IMPLIED">

---

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<!-- Semi-common attributes and other attribute entities .................. -->

<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!-- Format: Notation of the element content, if any -->
<!-- SrcCredit: Information about the source of the Graphic -->
<!-- Width: Same as CALS reprowid (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!-- Format: Notation of the element content, if any -->
<!-- SrcCredit: Information about the source of the Graphic -->
<!-- Width: Same as CALS reprowid (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<!-- Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value -->
<!-- OtherAction: User-defined key combination type -->

<!-- Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value -->
<!-- OtherAction: User-defined key combination type -->

<!ENTITY % local.graphics.attrib "">
<!ENTITY % local.keyaction.attrib "">

<!ENTITY % graphics.attrib "entityref ENTITY#IMPLIED fileref CDATA#IMPLIED format(%notation.class;) #IMPLIED srccredit CDATA#IMPLIED width CDATA#IMPLIED depth CDATA#IMPLIED align (left | right | center)#IMPLIED scale CDATA#IMPLIED scalefit %yesorno.attvals; #IMPLIED %local.graphics.attrib;">

<!ENTITY % keyaction.attrib "action (click | double-click | press"
<!-- Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter -->

<!ENTITY % label.attrib "labelCDATA#IMPLIED">

<!-- Format: whether element is assumed to contain significant white space -->

<!ENTITY % linespecific.attrib "formatNOTATION (linespecific)linenumbering(numbered|unnumbered) #IMPLIED">

<!-- Linkend: link to related information; no default -->

<!ENTITY % linkend.attrib "linkendIDREF#IMPLIED">

<!-- Linkend: required link to related information -->

<!ENTITY % linkendreq.attrib "linkendIDREF#REQUIRED">

<!-- Linkends: link to one or more sets of related information; no default -->

<!ENTITY % linkends.attrib "linkendsIDREFS#IMPLIED">

<!ENTITY % local.mark.attrib ""/>
<!ENTITY % mark.attrib "markCDATA#IMPLIED %local.mark.attrib;"/>
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<!-- Bibliographic entities and elements .................................. -->
Open Source Used In Cisco Modeling Labs 2.4  9252
%label.role.attrib;
%local.label.attrib;
>
<!--end of label.attlist-->]]>
<!--end of label.module-->]]>
<!--end of qandset.content.module-->]]>

<!-- Procedure ......................... -->

<!ENTITY % procedure.content.module "INCLUDE">
<!ENTITY % procedure.module "INCLUDE">
<!ENTITY % local.procedure.attrib "">
<!ENTITY % procedure.role.attrib "%role.attrib;"> 

<!ENTITY % procedure.element "INCLUDE">
<!ELEMENT procedure ((%formalobject.title.content;)?, (%component.mix;)*, step+)>

<!ENTITY % procedure.attlist "INCLUDE">
<!ATTLIST procedure
%common.attrib;
%procedure.role.attrib;
%local.procedure.attrib;>

<!-- Performance: Whether the Step must be performed -->
<!-- not #REQUIRED! -->

<!ENTITY % step.module "INCLUDE">
<!ENTITY % step.element;[
<!ELEMENT step (title?, (((%component.mix;)+, (substeps, (%component.mix;)*, step+)

<!ENTITY % step.attlist "INCLUDE">
<!ATTLIST step.module
%common.attrib;
%step.role.attrib;>

<!ENTITY % step.element "INCLUDE">
<!ELEMENT step (title?, (((%component.mix;)+, (substeps, (%component.mix;)*, step+)

<!ENTITY % component.mix; [ ]>
<!-- Renderas: Indicates the format in which the BridgeHead should appear -->
<!ENTITY % glosslist.module "INCLUDE">
<!ENTITY % glosslist.attrib "">
<!ENTITY % glosslist.role.attrib "%role.attrib;"> 

<!ENTITY % glosslist.element "INCLUDE">
<!ENTITY % glosslist.attlist "INCLUDE">
<!ENTITY % glossentry.content.module "INCLUDE">
<!ENTITY % glossentry.module "INCLUDE">
<!ENTITY % glossentry.attrib "">
<!ENTITY % glossentry.role.attrib "%role.attrib;"> 

<!ENTITY % glossentry.element "INCLUDE">
<!ENTITY % glossentry.attlist "INCLUDE">
<!ENTITY % glossentry.content.module "INCLUDE">
<!ENTITY % glossentry.module "INCLUDE">
<!ENTITY % glossentry.attrib "">
<!ENTITY % glossentry.role.attrib "%role.attrib;"> 

<!-- SortAs: String by which the GlossEntry is to be sorted (alphabetized) in lieu of its proper content -->
GlossTerm will be excluded from itself. Also, GlossTerm *may* be split into an element that appears in a Glossary and an element that can appear in the main text.

The Subject attribute will be renamed Keyword.

---

Subject: List of subjects; keywords for the definition -->

---
<!-- Spacing: Whether the vertical space in the list should be compressed -->
<!-- Mark: Keyword, e.g., bullet, dash, checkbox, none; list of keywords and defaults are implementation specific -->

<!-- Spacing: Whether the vertical space in the list should be compressed -->
<!-- Mark: Keyword, e.g., bullet, dash, checkbox, none; list of keywords and defaults are implementation specific -->

<!-- Numeration: Style of ListItem numbered; default is expected to be Arabic -->
<!-- InheritNum: Specifies for a nested list that the numbering of ListItem should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b) -->
<!-- Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues) -->
<!-- Spacing: Whether the vertical space in the list should be compressed -->
<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

<!--end of simplelist.content.module-->
<!-- TermLength: Length beyond which the presentation engine may consider the Term too long and select an alternate presentation of the Term and, or, its associated ListItem. -->

<!ENTITY % varlistentry.attlist "INCLUDE">
<!ATTLIST varlistentry
%common.attrib;
%varlistentry.role.attrib;
%local.varlistentry.attrib;
>
<!!---end of varlistentry.attlist-->]]>
<!!---end of varlistentry.module-->]]>

<!ENTITY % varlistentry.element "INCLUDE">
<![[%varlistentry.element;[
<!ELEMENT varlistentry (term+, listitem)
<!!---end of varlistentry.element-->]]>
<!ENTITY % varlistentry.module "INCLUDE">
<![[%varlistentry.module;[
<!ENTITY % local.varlistentry.attrib "">
<!ENTITY % varlistentry.role.attrib "%role.attrib;">

<!ENTITY % varlistentry.attlist "INCLUDE">
<!ATTLIST varlistentry
%common.attrib;
%varlistentry.role.attrib;
%local.varlistentry.attrib;
>
<!!---end of varlistentry.attlist-->]]>
<!!---end of varlistentry.module-->]]>

<!ENTITY % variablelist.element "INCLUDE">
<![[%variablelist.element;[
<!ELEMENT variablelist ((%formalobject.title.content;)?, varlistentry+)>
<!!---end of variablelist.element-->]]>

<!ENTITY % variablelist.attlist "INCLUDE">
<!ATTLIST variablelist
%common.attrib;
%variablelist.role.attrib;
%local.variablelist.attrib;
>
<!!---end of variablelist.attlist-->]]>
<!!---end of variablelist.module-->]]>

<!ENTITY % variablelist.role.attrib "%role.attrib;">
<!ENTITY % variablelist.attrib "">
<!ENTITY % variablelist.content.module "INCLUDE">
<!ENTITY % variablelist.module "INCLUDE">
<!ENTITY % local.variablelist.attrib "">

<!-- VariableList ..................... -->

<!ENTITY % variablelist.content.module "INCLUDE">
<!ENTITY % variablelist.module "INCLUDE">
<!ENTITY % local.variablelist.attrib "">
<!ENTITY % variablelist.role.attrib "%role.attrib;">

<!ENTITY % variablelist.element "INCLUDE">
<!ENTITY % variablelist.attlist "INCLUDE">
<!ENTITY % varlistentry.module "INCLUDE">
<!ENTITY % varlistentry.element "INCLUDE">
<!ENTITY % varlistentry.attlist "INCLUDE">

<!ATTLIST variablelist
termlengthCDATA#IMPLIED
%common.attrib;
%variablelist.role.attrib;
%local.variablelist.attrib;
>
<!!---end of variablelist.attlist-->]]>
<!!---end of variablelist.module-->]]>

<!ATTLIST variablelist
%common.attrib;
%variablelist.role.attrib;
%local.variablelist.attrib;
>
<!!---end of variablelist.attlist-->]]>
<!!---end of variablelist.module-->]]>

<!ATTLIST varlistentry
termCDATA#IMPLIED
%common.attrib;
%varlistentry.role.attrib;
%local.varlistentry.attrib;
>
<!!---end of varlistentry.attlist-->]]>
<!!---end of varlistentry.module-->]]>
Open Source Used In Cisco Modeling Labs 2.4
<!ENTITY % areaspec.content.module "INCLUDE">
<![%areaspec.content.module;]
<!ENTITY % areaspec.module "INCLUDE">
<![%areaspec.module;]
<!ENTITY % local.areaspec.attrib "">
<!ENTITY % areaspec.role.attrib "%role.attrib;">

<!ENTITY % areaspec.element "INCLUDE">
<![%areaspec.element;]
<!ELEMENT areaspec ((area|areaset)+)
<!--end of areaspec.element-->
]

<!-- Units: global unit of measure in which coordinates in this spec are expressed:

- CALSPair "x1,y1 x2,y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->
<!!-- OtherUnits: User-defined units -->

<!ENTITY % areaspec.attlist "INCLUDE">
<![%areaspec.attlist;]
<!ATTLIST areaspec
units(calspair|linecolumn|linerange|linecolumnpair|other)#IMPLIED
<!ENTITY % areaset.element "INCLUDE">
<![%areaset.element;[
<!ELEMENT areaset (area+)>]
<!-- end of areaset.element--]>]

<!-- bug number/symbol override or initialization -->
<!-- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSpec -->

<!ENTITY % areaset.attlist "INCLUDE">
<![%areaset.attlist;[
<!ATTLIST areaset
%label.attrib;
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%areaset.role.attrib;
%local.areaset.attrib;
>
<!!--end of areaset.attlist--]>
<!!--end of areaset.module--]>
<!!--end of areaspec.content.module--]>

<!ENTITY % programlisting.module "INCLUDE">
<![%programlisting.module;[
<!ENTITY % local.programlisting.attrib "">
<!ENTITY % programlisting.role.attrib "%role.attrib;">}

<!ENTITY % programlisting.element "INCLUDE">
<![%programlisting.element;[
<!ELEMENT programlisting (%para.char.mix; | co | lineannotation)>]
<!!--end of programlisting.element--]>]

<!ENTITY % programlisting.attlist "INCLUDE">
<![%programlisting.attlist;[
<!ATTLIST programlisting
%width.attrib;
%linespecific.attrib;
%common.attrib;
%programlisting.role.attrib;
%local.programlisting.attrib;
<!ENTITY % table.module "INCLUDE">
<![<!ATTLIST table
%common.attrib;
%alt.role.attrib;
%local.alt.attrib;
>
<!--end of alt.list-->]]>
<!ENTITY % tables.role.attrib "%role.attrib;">  
<!ENTITY % cals.table.module "INCLUDE">
<![<!ENTITY % exchange.table.module "IGNORE">]>
<!ENTITY % exchange.table.module "INCLUDE">
<!ENTITY % tables.role.attrib "%role.attrib;">  
<![<!ENTITY % cals.table.module;[
<!ENTITY % alt.role.attrib "%role.attrib;">]>
<!ENTITY % alt.module "INCLUDE">
<![<!ENTITY % local.alt.attrib "">  
<!ENTITY % alt.role.attrib "%role.attrib;">  
<!ENTITY % alt.attrib "INCLUDE">
<![<!ENTITY % table.module "INCLUDE">
<![<!-- Choose a table model. CALS is off by default, so the default -->
<![<!-- is now the SGML Open Exchange table model. -->
<![<!ENTITY % cals.table.module "INCLUDE">
<![<!ENTITY % exchange.table.module "IGNORE">]>
<!ENTITY % exchange.table.module "INCLUDE">
<![<!ENTITY % tables.role.attrib "%role.attrib;">]>
<![<!ENTITY % cals.table.module;[
<![<!-- Add label and role attributes to table and informaltable -->
<!ENTITY % bodyatt "%label.attrib;">

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, 
   EntryTbl, and Entry (and InformalTable element). -->
<!ENTITY % secur "%common.attrib; 
%tables.role.attrib;">

<!ENTITY % common.table.attribs "%bodyatt; 
%secur;">

<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl "((%formalobject.title.content;), (%ndxterm.class;)*, 
   (graphic+|mediaobject+[ggroup+]*)">

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "%para.char.mix; | %tabentry.mix;"> 

<!-- Reference SGML Open Exchange Table Model -->
<!ENTITY % tablemodel PUBLIC "-//Norman Walsh//DTD CALS Table Model XML V3.1.7//EN" "calstblx.dtd"> 

<![%exchange.table.module;[ 

<!-- Add common attributes and the Label attribute to Table and -->
<!-- InformalTable. -->
<!ENTITY % bodyatt "%common.attrib; 
%label.attrib; 
%tables.role.attrib;">

<!ENTITY % common.table.attribs "%bodyatt;"> 

<!-- Add common attributes to TGroup, ColSpec, TBody, THead, Row, Entry -->

<!ENTITY % tbl.tgroup.att "%common.attrib;"> 
<!ENTITY % tbl.colspec.att "%common.attrib;"> 
<!ENTITY % tbl.tbody.att "%common.attrib;"> 
<!ENTITY % tbl.thead.att "%common.attrib;"> 
<!ENTITY % tbl.row.att "%common.attrib;"> 
<!ENTITY % tbl.entry.att "%common.attrib;"> 

<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl 
"((%formalobject.title.content;), (%ndxterm.class;)*, 
   (graphic+|mediaobject+[ggroup+]*)">
<!-- Sepchar: Character that should separate command and all
top-level arguments; alternate value might be e.g., &Delta; -->

<!ENTITY % cmdsynopsis.attlist "INCLUDE">
<![%cmdsynopsis.attlist;[
<!ATTLIST cmdsynopsis
%label.attrib;
sepcharCDATA" "
cmdlengthCDATA#IMPLIED
%common.attrib;
%cmdsynopsis.role.attrib;
%local.cmdsynopsis.attrib;
>
<!--end of cmdsynopsis.attlist-->
]
]>
<!--end of cmdsynopsis.module-->
]
]

<!ENTITY % arg.module "INCLUDE">
<![%arg.module;[
<!ENTITY % local.arg.attrib ">
<!ENTITY % arg.role.attrib "%role.attrib;">

<!ENTITY % arg.element "INCLUDE">
<![%arg.element;[
<!ELEMENT arg (#PCDATA
 | arg
 | group
 | option
 | synopfragmentref
 | replaceable
 | sbr)*>
<!--end of arg.element-->
]]>

<!-- Choice: Whether Arg must be supplied: Opt (optional to
supply, e.g. [arg]; the default), Req (required to supply,
e.g. {arg}), or Plain (required to supply, e.g. arg) -->
<!-- Rep: whether Arg is repeatable: Norepeat (e.g. arg without
ellipsis; the default), or Repeat (e.g. arg...) -->

<!ENTITY % arg.attlist "INCLUDE">
<![%arg.attlist;[
<!ATTLIST arg
choice(opt
| req
| plain)'opt'
<!ENTITY % group.module "INCLUDE">
<![%group.module;]

<!ENTITY % local.group.attrib "">
<!ENTITY % group.role.attrib "%role.attrib;">

<!ENTITY % group.element "INCLUDE">
<![%group.element;]
<!ELEMENT group ((arg | group | option | synopfragmentref | replaceable | sbr)+)>
<!--end of group.element-->

<!-- Choice: Whether Group must be supplied: Opt (optional to supply, e.g. [g1|g2|g3]; the default), Req (required to supply, e.g. {g1|g2|g3}), Plain (required to supply, e.g. g1|g2|g3), OptMult (can supply zero or more, e.g. [[g1|g2|g3]]), or ReqMult (must supply one or more, e.g. { [g1|g2|g3] }) -->
<!-- Rep: whether Group is repeatable: Norepeat (e.g. group without ellipsis; the default), or Repeat (e.g. group...) -->

<!ENTITY % group.attlist "INCLUDE">
<![%group.attlist;]
<!ATTLIST group choice(opt
| req
| plain) 'opt'
rep(norepeat
| repeat')norepeat'
%common.attrib;
%group.role.attrib;
%local.group.attrib;
> 
<!--end of group.attlist-->

<!ENTITY % sbr.module "INCLUDE">
<![%sbr.module;]
<!-- Synopsis break -->
<!ENTITY % local.sbr.attrib "">
<!ENTITY % sbr.role.attrib "%role.attrib;">

<!--end of sbr.element-->
<!ENTITY % sbr.attlist "INCLUDE">
<!ATTLIST sbr
%common.attrib;
%sbr.role.attrib;
%local.sbr.attrib;
>
<!--end of sbr.attlist-->

<!--to SynopFragment of complex synopsis material for separate referencing-->
<!ENTITY % synopfragmentref.module "INCLUDE">
<!ENTITY % synopfragmentref.attribute "">
<!ENTITY % synopfragmentref.role.attrib "%role.attrib;">

<!--to SynopFragment of complex synopsis material for separate referencing-->
<!ENTITY % synopfragmentref.attlist "INCLUDE">
<!ATTLIST synopfragmentref
%linkendreq.attrib;%common.attrib;
%synopfragmentref.role.attrib;
%local.synopfragmentref.attrib;
>
<!--end of synopfragmentref.attlist-->

<!ENTITY % synopfragment.module "INCLUDE">
<!ENTITY % synopfragment.attribute "">
<!ENTITY % synopfragment.role.attrib "%role.attrib;"
%local.varargs.attrib;
>
<!--end of varargs.attlist-->
<!--end of varargs.module-->

<!-- Processing assumes that only one Parameter will appear in a
ParamDef, and that FuncParams will be used at most once, for
providing information on the "inner parameters" for parameters that
are pointers to functions. -->

<!ENTITY % paramdef.module "INCLUDE">
<![%paramdef.module]:[
<!ENTITY % local.paramdef.attrib "">
<!ENTITY % paramdef.role.attrib "%role.attrib;">  

<!ENTITY % paramdef.element "INCLUDE">
<![%paramdef.element]:[
<!ELEMENT paramdef (#PCDATA |
replaceable |
parameter |
funcparams)*>

<!ENTITY % paramdef.attlist "INCLUDE">
<![%paramdef.attlist]:[
<!ATTLIST paramdef %common.attrib;
%paramdef.role.attrib;
%local.paramdef.attrib;
>
<!--end of paramdef.attlist-->
<!--end of paramdef.module-->

<!ENTITY % funcparams.module "INCLUDE">
<![%funcparams.module]:[
<!ENTITY % local.funcparams.attrib "">
<!ENTITY % funcparams.role.attrib "%role.attrib;">  

<!ENTITY % funcparams.element "INCLUDE">
<![%funcparams.element]:[
<!ELEMENT funcparams (%cptr.char.mix;)*>
<!--end of funcparams.element-->

<!ENTITY % funcparams.attlist "INCLUDE">
<![%funcparams.attlist]:[
<!ATTLIST funcparams %common.attrib;
%funcparams.role.attrib;
%local.oointerface.attrib;
>
<!--end of oointerface.attlist-->

<!--end of oointerface.module-->

<!ENTITY % ooexception.module "INCLUDE">
<![%ooexception.module;[
<!ENTITY % local.ooexception.attrib "">
<!ENTITY % ooexception.role.attrib "%role.attrib;"> 

<!--end of ooexception.element-->

<!ENTITY % ooexception.attlist "INCLUDE">
<![%ooexception.attlist;[
<!ATTLIST ooexception
%common.attrib;
%ooexception.role.attrib;
%local.ooexception.attrib;
>
<!--end of ooexception.attlist-->

<!--end of ooexception.module-->

<!ENTITY % modifier.module "INCLUDE">
<![%modifier.module;[
<!ENTITY % local.modifier.attrib "">
<!ENTITY % modifier.role.attrib "%role.attrib;"> 

<!--end of modifier.element-->

<!ENTITY % modifier.attlist "INCLUDE">
<![%modifier.attlist;[
<!ATTLIST modifier
%common.attrib;
%modifier.role.attrib;
%local.modifier.attrib;
>
<!--end of modifier.attlist-->

<!--end of modifier.module-->

<!ENTITY % interfacename.module "INCLUDE">
<![%interfacename.module;[
<!ENTITY % local.interfacename.attrib "">

---
The document information elements include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies. -->

<!ENTITY % docinfo.content.module "INCLUDE">
<![%docinfo.content.module;]

<!ENTITY % ackno.module "INCLUDE">
<![%ackno.module;]
<!ENTITY % local.ackno.attrib "">
<!ENTITY % ackno.role.attrib "%role.attrib;">

<!ENTITY % ackno.element "INCLUDE">
<![%ackno.element;]
<!ELEMENT ackno (%docinfo.char.mix;)*>
<![--end of ackno.element--]>

<!ENTITY % ackno.attlist "INCLUDE">
<![%ackno.attlist;]
<!ATTLIST ackno
%common.attrib;
%ackno.role.attrib;
%local.ackno.attrib;
>
<![--end of ackno.attlist--]>

<!ENTITY % address.content.module "INCLUDE">
<![%address.content.module;]
<!ENTITY % address.module "INCLUDE">
<![%address.module;]
<!ENTITY % local.address.attrib "">
<!ENTITY % address.role.attrib "%role.attrib;"
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%common.attrib;
%confdates.role.attrib;
%local.confdates.attrib;
>
<!--end of confdates.attlist-->]]>
<!--end of confdates.module-->]]>

<!ENTITY % conftitle.module "INCLUDE">
<![%conftitle.module;]
<!ENTITY % local.conftitle.attrib "">
<!ENTITY % conftitle.role.attrib "%role.attrib;">  

<!ENTITY % conftitle.element "INCLUDE">
<![%conftitle.element;]
<!ELEMENT conftitle (%docinfo.char.mix;)*>
<![--end of conftitle.element-->]]>

<!ENTITY % conftitle.attlist "INCLUDE">
<![%conftitle.attlist;]
<!ATTLIST conftitle
%common.attrib;
%conftitle.role.attrib;
%local.conftitle.attrib;
>
<![--end of conftitle.attlist-->]]>
<![--end of conftitle.module-->]]>

<!ENTITY % confnum.module "INCLUDE">
<![%confnum.module;]
<!ENTITY % local.confnum.attrib "">
<!ENTITY % confnum.role.attrib "%role.attrib;">  

<!ENTITY % confnum.element "INCLUDE">
<![%confnum.element;]
<!ELEMENT confnum (%docinfo.char.mix;)*>
<![--end of confnum.element-->]]>

<!ENTITY % confnum.attlist "INCLUDE">
<![%confnum.attlist;]
<!ATTLIST confnum
%common.attrib;
%confnum.role.attrib;
%local.confnum.attrib;
>
<![--end of confnum.attlist-->]]>
<![--end of confnum.module-->]]>

<![-- Address (defined elsewhere in this section)-->

---

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<!ENTITY % co.module "INCLUDE">
<![%co.module;]
<!ENTITY % local.co.attrib "">
<!ENTITY % co.role.attrib "%role.attrib;">  
<!ENTITY % co.element "INCLUDE">
<![%co.element;[
<!ELEMENT co EMPTY>
<![-- end of co.element-->]]>

<!ENTITY % co.attlist "INCLUDE">
<![%co.attlist;[
<!ATTLIST co
%label.attrib;
%linkends.attrib;
%idreq.common.attrib;
%co.role.attrib;
%local.co.attrib;
>  
<![-- end of co.attlist-->]]>
<![-- end of co.module-->]]>

<!-- bug number/symbol override or initialization -->
<![-- to any related information -->

<!-- CO is a callout area of the LineColumn unit type (a single character position); the position is directly indicated by the location of CO. -->

<!ENTITY % co.role.attrib "%role.attrib;">
<ENTITY % optional.module "INCLUDE">
<![%optional.module:[
<ENTITY % local.optional.attrib """>
<ENTITY % optional.role.attrib "%role.attrib;">

<ENTITY % optional.element "INCLUDE">
<![%optional.element:[
<ELEMENT optional (%cptr.char.mix;)*>
<!--end of optional.element--]]>

<ENTITY % optional.attlist "INCLUDE">
<![%optional.attlist:[
<!ATTLIST optional
%common.attrib;
%optional.role.attrib;
%local.optional.attrib;
> 
<!--end of optional.attlist--]]>
<!--end of optional.module--]]>

<ENTITY % parameter.module "INCLUDE">
<![%parameter.module:[
<ENTITY % local.parameter.attrib """>
<ENTITY % parameter.role.attrib "%role.attrib;">

<ENTITY % parameter.element "INCLUDE">
<![%parameter.element:[
<ELEMENT parameter (%smallcptr.char.mix;}>
<!--end of parameter.element--]]>
<!-- Class: Type of the Parameter; no default -->

<ENTITY % parameter.attlist "INCLUDE">
<![%parameter.attlist:[
<!ATTLIST parameter
class (command
|function
|option)#IMPLIED
%moreinfo.attrib;
%common.attrib;
%parameter.role.attrib;
%local.parameter.attrib;
> 
<!--end of parameter.attlist--]]>
<!--end of parameter.module--]]>

<!ENTITY % prompt.module "INCLUDE">
Pubwork: Genre of published work cited; no default -->
IndexTerms appear in the text flow for generating or linking an index. -->

<!ENTITY % indexterm.content.module "INCLUDE">
<![%indexterm.content.module;]
<!ENTITY % indexterm.module "INCLUDE">
<![%indexterm.module;]
<!ENTITY % local.indexterm.attrib "">
<!ENTITY % indexterm.role.attrib "%role.attrib;">}

<!ENTITY % indexterm.element "INCLUDE">
<![%indexterm.element;]
<!ELEMENT indexterm (primary?, ((secondary, ((tertiary, (see|seealso+)?) | see | seealso+)?) | see | seealso+)?)>
<!-end of indexterm.element-->

<!ENTITY % indexterm.attlist "INCLUDE">
<![%indexterm.attlist;]
<ATTLIST indexterm
%pagenum.attrib;
scope(all
global
|local)#IMPLIED
significance(preferred

<!-- Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both) -->
<!-- Significance: Whether this IndexTerm is the most pertinent of its series (Preferred) or not (Normal, the default) -->
<!-- Class: Indicates type of IndexTerm; default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges -->
<!-- StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm -->
<!-- Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs -->
<!ENTITY % tertiary.element "INCLUDE">
<!ELEMENT tertiary (%ndxterm.char.mix;)*>
<!--end of tertiary.element-->

<!ENTITY % tertiary.attlist "INCLUDE">
<!ATTLIST tertiary
sortas CDATA #IMPLIED
%common.attrib;
%primsecter.role.attrib;
%local.primsecter.attrib;
>
<!--end of tertiary.attlist-->

<!ENTITY % seeseealso.module "INCLUDE">
<!ENTITY % local.seeseealso.attrib "">
<!ENTITY % seeseealso.role.attrib " %role.attrib;"> 

<!ENTITY % see.element "INCLUDE">
<!ELEMENT see (%ndxterm.char.mix;)*>
<!--end of see.element-->

<!ENTITY % see.attlist "INCLUDE">
<!ATTLIST see
%common.attrib;
%seeseealso.role.attrib;
%local.seeseealso.attrib;
>
<!--end of see.attlist-->

<!ENTITY % seealso.element "INCLUDE">
<!ELEMENT seealso (%ndxterm.char.mix;)*>
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Found in path(s):
* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.2/calstblx.dtd
No license file was found, but licenses were detected in source scan.

2000 HaL Computer Systems, Inc.,

$Id: docbookx.dtd,v 1.7 2000/05/18 19:47:38 nwalsh Exp $

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* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.0/docbookx.dtd
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<!-- ...................................................................... -->
<!-- DocBook XML information pool module V4.3 ......................... -->
<!-- File dbpoolx.mod ..................................................... -->

O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
Corporation, Norman Walsh, Sun Microsystems, Inc., and the
Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbpoolx.mod,v 1.86 2004/03/31 10:40:22 nwalsh Exp $

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information, see http://www.oasis-open.org/docbook/.

<!-- ...................................................................... -->

<!-- This module contains the definitions for the objects, inline
elements, and so on that are available to be used as the main
content of DocBook documents. Some elements are useful for general
publishing, and others are useful specifically for computer
documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the
driver file or other high-level module. This entity is
  referenced in the NOTATION attributes for the graphic-related and
  ModeSpec elements.

- It assumes that an appropriately parameterized table module is

available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.3//EN"
"dbpoolx.mod">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

-->

```xml
<!ENTITY % yesorno.attvals "CDATA">
```

```xml
<!ENTITY % dbpool.redecl.module "IGNORE">
```

```xml
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class
"indexterm %local.ndxterm.class;">
```

```xml
<!ENTITY % local.list.class "">
<!ENTITY % list.class
"calloutlist|glosslist|itemizedlist|orderedlist|segmentedlist |
simplelist|variablelist %local.list.class;">
```

```xml
<!ENTITY % local.admon.class "">
<!ENTITY % admon.class
"caution|important|note|tip|warning %local.admon.class;">
```

```xml
<!ENTITY % local.linespecific.class "">
<!ENTITY % linespecific.class
```

---

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---

list admn line synp para infm form cmpd gen desc
Component mixture   X X X X X X X X X X X X
Sidebar mixture     X X X X X X a X
Footnote mixture    X X X X X
Example mixture     X X X X X
Highlights mixture  X X X
Paragraph mixture   X X X
Admonition mixture  X X X X X X b c
Figure mixture      X X X
Table entry mixture X X X d
Glossary def mixture X X X X X e
Legal notice mixture X X X f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
#PCD xref word link cptr base dnfo othr inob (synop)

| para.char.mix | X | X | X | X | X | X | X | X | X | X |
| title.char.mix | X | X | X | X | X | X | X | X | X | X |
| ndxterm.char.mix | X | X | X | X | X | X | X | a |
| cptr.char.mix | X | X | X | X | X | a |
| smallecptr.char.mix | X | b | a |
| word.char.mix | X | c | X | X | X | a |
| docinfo.char.mix | X | d | X | b | X | a |

- a. Just InlineGraphic; no InlineEquation.
- b. Just Replaceable; no other computer terms.
- c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

-->
<ENTITY % smallcptr.char.mix "#PCDATA
|replaceable
|inlinegraphic|linemediaobject
|%ndxterm.class; |beginpage
%local.smallcptr.char.mix;"> 

<!ENTITY % local.word.char.mix "">
<!ENTITY % word.char.mix "#PCDATA
|acronym|emphasis|trademark
|%link.char.class;
|%base.char.class;
|%other.char.class|inlinegraphic|linemediaobject
|%ndxterm.class; |beginpage
%local.word.char.mix;"> 

<!ENTITY % local.docinfo.char.mix "">
<!ENTITY % docinfo.char.mix "#PCDATA
|link.char.class;
|emphasis|trademark
|replaceable
|%other.char.class|inlinegraphic|linemediaobject
|%ndxterm.class;
%local.docinfo.char.mix;"> 

<!ENTITY % bibliocomponent.mix (see Bibliographic section, below)>
<!ENTITY % person.ident.mix (see Bibliographic section, below)>

<!-- .......................................................... -->
<!-- Entities for attributes and attribute components ..................... -->
<!-- Effectivity attributes ............................................... -->

<!-- Arch: Computer or chip architecture to which element applies; no default -->

<!ENTITY % arch.attrib "archCDATA#IMPLIED">

<!-- Condition: General-purpose effectivity attribute -->

<!ENTITY % condition.attrib "conditionCDATA#IMPLIED">

<!-- Conformance: Standards conformance characteristics -->
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Open Source Used In Cisco Modeling Labs 2.4  9419

<!-- Paragraph-related elements ........................................... -->

-->

<!ENTITY % sidebarinfo.module "INCLUDE">  
<![ %sidebarinfo.module; [   
<!ENTITY % local.sidebarinfo.attrib "">   
<!ENTITY % sidebarinfo.role.attrib ">%role.attrib;">   
<!ENTITY % sidebarinfo.element "INCLUDE">  
<![ %sidebarinfo.element; [   
<!ELEMENT sidebarinfo %ho; (((%info.class;)+)   
%beginpage.exclusion;>   
<!--end of sidebarinfo.element-->]]>  
</--end of sidebarinfo.module-->]]>

<!ENTITY % sidebarinfo.attlist "INCLUDE">  
<![ %sidebarinfo.attlist; [   
<!ATTLIST sidebarinfo   
%common.attrib;   
%sidebarinfo.role.attrib;   
%local.sidebarinfo.attrib;   
>   
<!--end of sidebarinfo.attlist-->]]>  
<!--end of sidebarinfo.module-->]]>

<!ENTITY % sidebar.module "INCLUDE">  
<![ %sidebar.module; [   
<!ENTITY % local.sidebar.attrib "">   
<!ENTITY % sidebar.role.attrib ">%role.attrib;">   
<!ENTITY % sidebar.element "INCLUDE">  
<![ %sidebar.element; [   
<!ELEMENT sidebar %ho; (sidebarinfo?,   
(%formalobject.title.content;)?,   
(%sidebar.mix;)+)>   
<!--end of sidebar.element-->]]>  
</--end of sidebar.module-->]]>

<!ENTITY % sidebar.attlist "INCLUDE">  
<![ %sidebar.attlist; [   
<!ATTLIST sidebar   
%common.attrib;   
%sidebar.role.attrib;   
%local.sidebar.attrib;   
>   
<!--end of sidebar.attlist-->]]>  
<!--end of sidebar.module-->]]>

-->

<!-- Paragraph-related elements ........................................... -->
<!-- Renderas: Indicates the format in which the BridgeHead should appear -->

<!ENTITY % bridgehead.module "INCLUDE">
<!ENTITY % local.bridgehead.attrib "">
<!ENTITY % bridgehead.role.attrib "%role.attrib;">  

<!ENTITY % bridgehead.element "INCLUDE">
<!ENTITY % bridgehead.attlst "">
<!ATTLIST bridgehead renderas (other | sect1 | sect2 | sect3 | sect4 | sect5) #IMPLIED  
%common.attrib;  
%bridgehead.role.attrib;  
%local.bridgehead.attrib;  
>
<!--end of bridgehead.attlst-->]]>  
<!--end of bridgehead.module-->]]>

<!ENTITY % remark.module "INCLUDE">
<!ENTITY % local.remark.attrib "">
<!ENTITY % remark.role.attrib "%role.attrib;">  

<!ENTITY % remark.element "INCLUDE">
<!ENTITY % remark.attlst " ">
<!ELEMENT remark %ho; (%para.char.mix;)*  
%remark.exclusion;>  
<!--end of remark.element-->]]>  

<!ENTITY % remark.attlst "INCLUDE">
<!ENTITY % glossentry.content.module "INCLUDE">
<!ENTITY % glossentry.content.module;[
<!ENTITY % glossentry.module "INCLUDE">
<!ENTITY % glossentry.module;[
<!ENTITY % local.glossentry.attrib ""
<!ENTITY % glossentry.role.attrib "%role.attrib;">

<!ENTITY % glossentry.element "INCLUDE">
<!ENTITY % glossentry.element;[
<!ELEMENT glossentry %ho; (glossterm, acronym?, abbrev?,
(ndxterm.class;)*,
revhistory?, (glosssee|glossdef+))>

<!ENTITY % glossentry.attlist "INCLUDE">
<!ATTLIST glossentry
  sortas  CDATA #IMPLIED
%common.attrib;
%glossentry.role.attrib;
%local.glossentry.attrib;
>
<!-- SortAs: String by which the GlossEntry is to be sorted
(alphabetized) in lieu of its proper content -->

<!ENTITY % glossentry.attlist "INCLUDE">
<!ENTITY % glossentry.attlist;[
<!ATTLIST glossentry
sortasCDATA#IMPLIED
%common.attrib;
%glossentry.role.attrib;
%local.glossentry.attrib;
>
<!--end of glossentry.attlist-->]]>
<!--end of glossentry.module-->]]>

<!ELEMENT glossdef %ho; ((%glossdef.mix;)+, glossseealso*)>

<!ENTITY % glossdef.module "INCLUDE">
<!ENTITY % glossdef.module;[
<!ENTITY % local.glossdef.attrib ""
<!ENTITY % glossdef.role.attrib "%role.attrib;">

<!ENTITY % glossdef.element "INCLUDE">
<!ENTITY % glossdef.element;[
<!ELEMENT glossdef %ho; ((%glossdef.mix;)+, glossseealso*)>

<!-- GlossTerm (defined in the Inlines section, below)-->
<!ENTITY % glossdef.module "INCLUDE">
<!ENTITY % glossdef.module;[
<!ENTITY % local.glossdef.attrib ""
<!ENTITY % glossdef.role.attrib "%role.attrib;">

<!ENTITY % glossdef.element "INCLUDE">
<!ENTITY % glossdef.element;[
<!ELEMENT glossdef %ho; ((%glossdef.mix;)+, glossseealso*)>

<!-- Subject: List of subjects; keywords for the definition -->

<!ENTITY % glossdef.attlist "INCLUDE">
<!ENTITY % glosssee.module "INCLUDE">
<!ENTITY % glossseealso.module "INCLUDE">
<!ENTITY % glosssee.attlist "INCLUDE">
<!ENTITY % glossseealso.attlist "INCLUDE">
<!-- OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSee -->
<!-- OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSeeAlso -->
Numeration: Style of ListItem numbered; default is expected to be Arabic

InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b)

Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues)

Spacing: Whether the vertical space in the list should be compressed

numeration(arabic |.upperalpha |.loweralpha |.upperroman |.lowerroman)
inheritnum(inherit |ignore)
continuation(continues |restarts)
spacing(normal |compact)
%common.attrib;
%orderedlist.role.attrib;
%local.orderedlist.attrib;
>
<!--end of orderedlist.attlist-->]]>
<!--end of orderedlist.module-->]]>
<!ENTITY % seg.attlist "INCLUDE">
<![%seg.attlist;[
<!ATTLIST seg
%common.attrib;
%seg.role.attrib;
%local.seg.attrib;
>
<!--end of seg.attlist-->]]>
<![--end of seg.module-->]]>
<![--end of segmentedlist.content.module-->]]>

<!-- SimpleList ....................... -->

<!ENTITY % simplelist.content.module "INCLUDE">
<![%simplelist.content.module;[
<!ENTITY % simplelist.module "INCLUDE">
<![%simplelist.module;[
<!ENTITY % local.simplelist.attrib "">
<!ENTITY % simplelist.role.attrib "%role.attrib;">

<!ENTITY % simplelist.element "INCLUDE">
<![%simplelist.element;[
<!ELEMENT simplelist %ho; (member+)>
<!--end of simplelist.element-->]]>

<![-- Columns: The number of columns the array should contain -->
<![-- Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

<!ENTITY % simplelist.attlist "INCLUDE">
<![%simplelist.attlist;[
<!ATTLIST simplelist
columnsCDATA#IMPLIED
type(inline
|vert
|horiz)"vert"
%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>
<![--end of simplelist.attlist-->]]>
<![--end of simplelist.module-->]]>
TermLength: Length beyond which the presentation engine may consider the Term too long and select an alternate presentation of the Term and, or, its associated ListItem. -->
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<!ENTITY % calloutlist.content.module "INCLUDE">
<![|%calloutlist.content.module;[>
<!ENTITY % calloutlist.module "INCLUDE">
<![|%calloutlist.module;[>
<!ENTITY % local.calloutlist.attrib "">
<!ENTITY % calloutlist.role.attrib "%role.attrib;">

<!ENTITY % calloutlist.element "INCLUDE">
<![|%calloutlist.element;[>
<!ELEMENT calloutlist %ho; ((%formalobject.title.content;)?, callout+)>
<!--end of calloutlist.element-->]]>

<!ENTITY % calloutlist.attlist "INCLUDE">
<![|%calloutlist.attlist;[>
<!ATTLIST calloutlist
%common.attrib;
%calloutlist.role.attrib;
%local.calloutlist.attrib;
>
<!--end of calloutlist.attlist-->
]

<!ENTITY % callout.module "INCLUDE">
<![|%callout.module;[>
<!ENTITY % local.callout.attrib "">
<!ENTITY % callout.role.attrib "%role.attrib;">

<!ENTITY % callout.element "INCLUDE">
<![|%callout.element;[>
<!ELEMENT callout %ho; (%component.mix;)+>
<!--end of callout.element-->]]>

<!-- AreaRefs: IDs of one or more Areas or AreaSets described
by this Callout -->

<!ENTITY % callout.attlist "INCLUDE">
<![|%callout.attlist;[>
<!ATTLIST callout
arearefsIDREFS#REQUIRED
%common.attrib;
%callout.role.attrib;
%local.callout.attrib;
>
<!--end of callout.attlist-->]]>

<!ENTITY % calloutlist.content.module "INCLUDE">
<![|%calloutlist.content.module;[>
<!ENTITY % calloutlist.module "INCLUDE">
<![|%calloutlist.module;[>
<!ENTITY % local.calloutlist.attrib "">
<!ENTITY % calloutlist.role.attrib "%role.attrib;">

<!ENTITY % calloutlist.element "INCLUDE">
<![|%calloutlist.element;[>
<!ELEMENT calloutlist %ho; ((%formalobject.title.content;)?, callout+)>
<!--end of calloutlist.element-->
]]>

<!ENTITY % calloutlist.attlist "INCLUDE">
<![|%calloutlist.attlist;[>
<!ATTLIST calloutlist
%common.attrib;
%calloutlist.role.attrib;
%local.calloutlist.attrib;
>
<!--end of calloutlist.attlist-->
]

<!ENTITY % callout.module "INCLUDE">
<![|%callout.module;[>
<!ENTITY % local.callout.attrib "">
<!ENTITY % callout.role.attrib "%role.attrib;">

<!ENTITY % callout.element "INCLUDE">
<![|%callout.element;[>
<!ELEMENT callout %ho; (%component.mix;)+>
<!--end of callout.element-->]]>

<!-- AreaRefs: IDs of one or more Areas or AreaSets described
by this Callout -->
Units: global unit of measure in which coordinates in
this spec are expressed:

- CALSPair "x1.y1 x2.y2": lower-left and upper-right
coordinates in a rectangle describing repro area in which
graphic is placed, where X and Y dimensions are each some
number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number
at which to start callout text in "linespecific" content
- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn)

<!-- OtherUnits: User-defined units -->

<!-- bug number/symbol override or initialization -->
<!-- to any related information -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSet and AreaSpec -->
<!-- OtherUnits: User-defined units -->
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-- Figures etc. .......................... -->
Graphical data can be the content of Graphic, or you can reference an external file either as an entity (Entitref) or a filename (Fileref). -->

<!ENTITY % graphic.module "INCLUDE">
<![%graphic.module;]
<!ENTITY % local.graphic.attrib "">
<!ENTITY % graphic.role.attrib "%role.attrib;">
Equations ........................

This PE provides a mechanism for replacing equation content, -->
perhaps adding a new or different model (e.g., MathML) -->
 equation.content "(alt?, (graphic|mediaobject+))">
 equation.inlinetext.content "(alt?, (graphic|inlinetextobject+))">
 equation.module "INCLUDE">
![equation.module:]
 equation.role.attrib "%role.attrib;">
 equation.element "INCLUDE">
![equation.element:]
 equation%ho; (blockinfo?, (%formalobject.title.content;?),
 informalequation [ %equation.content;])>
 equation.element--->]]>
 equation.atlist "INCLUDE">
![equation.atlist:]
 equation.role.attrib %role.attrib;>
 equation.element "INCLUDE">
![equation.element:]
 equation%ho; (areaspec, imageobject, calloutlist*)>
<!-- end of inlinemodule-->

<!ENTITY % alt.module "INCLUDED">
<![%alt.module;]
<!ENTITY % local.alt.attrib "">
<!ENTITY % alt.role.attrib "%role.attrib;"> 

<!ENTITY % alt.element "INCLUDED">
<![%alt.element;]
<!ELEMENT alt %ho; (#PCDATA)>
<!-- end of alt.element-->

<!ENTITY % alt.attlist "INCLUDED">
<![%alt.attlist;]
<!ATTLIST alt %common.attrib; %alt.role.attrib; %local.alt.attrib; >
<!-- end of alt.attlist-->

<!-- Tables ......................... -->

<!ENTITY % table.module "INCLUDED">
<![%table.module;]

<!-- Choose a table model. CALS or OASIS XML Exchange -->

<!ENTITY % cals.table.module "INCLUDED">
<![%cals.table.module;]
<!ENTITY % exchange.table.module "IGNORE">
])>

<!ENTITY % exchange.table.module "INCLUDED">

<!-- Do we allow the HTML table model as well? -->

<!ENTITY % allow.html.tables "INCLUDED">
<![%allow.html.tables;]
<!-- ============================================================== -->
<!-- xhtmltbl.mod defines HTML tables and sets parameter entities so that, when the CALS table module is read, we end up allowing any table to be CALS or HTML. i.e. This include must come first! -->
<!-- ============================================================== -->

<!ENTITY % htmltbl
PUBLIC "/OASIS/ELEMENTS DocBook XML HTML Tables V4.3/EN" "htmltblx.mod">
<!-- Add common attributes to TGroup, ColSpec, TBody, THead, Row, Entry -->

<!ENTITY % tbl.tgroup.att "%common.attrb;">  
<!ENTITY % tbl.colspec.att "%common.attrb;">  
<!ENTITY % tbl.tbody.att "%common.attrb;">  
<!ENTITY % tbl.thead.att "%common.attrb;">  
<!ENTITY % tbl.row.att "%common.attrb;">  
<!ENTITY % tbl.entry.att "%common.attrb;">  

<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl "(blockinfo?, (%formalobject.title.content;), (%ndxterm.class;)*, 
 textobject*, 
   (graphic+|mediaobject+|tgroup+))">  

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "(%para.char.mix; | %tabentry.mix;)*">  

<!-- Reference OASIS Exchange Table Model -->
<!ENTITY % tablemodel PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN" 
 "soextblx.dtd">  

%tablemodel;  

<!--end of table.module-->

<!ENTITY % informaltable.module "INCLUDE">  
<![%informaltable.module:]

<!-- Note that InformalTable is dependent on some of the entity 
    declarations that customize Table. -->

<!ENTITY % local.informaltable.attrib """>  

<!-- the following entity may have been declared by the XHTML table module -->
<!ENTITY % informal.tbl.table.mdl "textobject*, (graphic+|mediaobject+|group+)">  

<!ENTITY % informaltable.element "INCLUDE">  
<![%informaltable.element:]

<!ELEMENT informaltable %ho; (blockinfo?, (%informal.tbl.table.mdl;))>  

<!--end of informaltable.element-->

<!-- Frame, Colsep, and Rowsep must be repeated because 
they are not in entities in the table module. -->
<!-- includes TabStyle, ToCentry, ShortEntry, 
Orient, PgWide -->
<!-- includes Label -->
<!-- includes common attributes -->

<!ENTITY % informaltable.attlist "INCLUDE">
<![%informaltable.attlist;[
<!ATTLIST informaltable
frame (%tbl.frame.attval;)#IMPLIED
colsep %yesorno.attvals;#IMPLIED
rowsep %yesorno.attvals;#IMPLIED
%common.table.attribs;
%tbl.table.att;
%local.informaltable.attrib;
>
<!--end of informaltable.attlist-->]]>
<!--end of informaltable.module-->]]>

<!ENTITY % caption.module "INCLUDE">
<![%caption.module; [
<!ENTITY % local.caption.attrib "">
<!ENTITY % caption.role.attrib "%role.attrib;">]

<!ENTITY % caption.element "INCLUDE">
<![%caption.element; [
<!ELEMENT caption %ho; (#PCDATA | %textobject.mix;)*>
<!--end of caption.element-->]]>

<!ENTITY % caption.attlist "INCLUDE">
<![%caption.attlist; [
<!!-- attrs comes from HTML tables ... -->

<![%allow.html.tables; []
<!!-- common.attrib, but without ID because ID is in attrs -->
<!ENTITY % caption.attlist.content "
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
%dire.attrib;
%xml-base.attrib;
%local.common.attrib;
%caption.role.attrib;
%attrs;
align(top|bottom|left|right)#IMPLIED
%local.caption.attrib;
">]]>
<!ENTITY % caption.attlist.content "

%common.attrib;
%caption.role.attrib;
%local.caption.attrib;
"\\

<!ATTLIST caption %caption.attlist.content;>

<!--end of caption.attlist-->]]>
<!--end of caption.module-->]]>

<!-- ................................................................. -->
<!-- Synopsis ....................................................... -->

<!ENTITY % synopsis.module "INCLUDE">
<![%synopsis.module;]
<!ENTITY % local.synopsis.attrib "">
<!ENTITY % synopsis.role.attrib "%role.attrib;">

<!ENTITY % synopsis.element "INCLUDE">
<![%synopsis.element;]
<!ELEMENT synopsis %ho; (%para.char.mix;|graphic|mediaobject|co|coref|textobject|lineannotation)*>
<!--end of synopsis.element-->

<!ENTITY % synopsis.attlist "INCLUDE">
<![%synopsis.attlist;]
<!ATTLIST synopsis %label.attrib;
%linespecific.attrib;
%common.attrib;
%synopsis.role.attrib;
%local.synopsis.attrib;
">
<!--end of synopsis.attlist-->]]>

<!ENTITY % synopsis.charset.attrib "INCLUDE">
<![% synopsis.charset.attrib;]
<!ENTITY % synopsis.attlist "INCLUDE">
<![% synopsis.attlist;]
<!ATTLIST synopsis %meta nuestras; %object.attribute; %common.attribute; %sync.attribute; %label.attribute; %local.synopsis.attribute; >
<!--end of synopsis.attlist-->]]>

<!ENTITY % cmdsynopsis.charset.module "INCLUDE">
<![% cmdsynopsis.charset.module;]
<!ENTITY % cmdsynopsis.content.module "INCLUDE">
<![% cmdsynopsis.content.module;]
<!ENTITY % cmdsynopsis.module "INCLUDE">
<![% cmdsynopsis.module;]
<!ENTITY % local.cmdsynopsis.attrib "">
<!ENTITY % cmdsynopsis.role.attrib "%role.attrib;">

<!ENTITY % cmdsynopsis.charset.attrib "INCLUDE">
<![% cmdsynopsis.charset.attrib;]
<!ENTITY % cmdsynopsis.content.attrib "INCLUDE">
<![% cmdsynopsis.content.attrib;]
<!ENTITY % cmdsynopsis.role.attrib "%role.attrib;">
<!ENTITY % cmdsynopsis.content.attrib "INCLUDE">
<![% cmdsynopsis.content.attrib;]
choice(opt
|req
|plain)'opt'
rep(norepeat
|repeat)'norepeat'
%common.attrib;
%arg.role.attrib;
%local.arg.attrib;
>
<!--end of arg.attriblist-->
<!--end of arg.module-->

<!ENTITY % group.module "INCLUDE">
<![%group.module;[

<!ENTITY % local.group.attrib "">
<!ENTITY % group.role.attrib "%role.attrib;">

<!ENTITY % group.element "INCLUDE">
<![%group.element;[
<!ELEMENT group %ho; ((arg | group | option | synopfragmentref
| replaceable | sbr)+)>
<!--end of group.element-->

<!-- Choice: Whether Group must be supplied: Opt (optional to supply, e.g. [g1|g2|g3]; the default), Req (required to supply, e.g. {g1|g2|g3}), Plain (required to supply, e.g. g1|g2|g3), OptMult (can supply zero or more, e.g. [[g1|g2|g3]]), or ReqMult (must supply one or more, e.g. {{g1|g2|g3}}) -->
<!-- Rep: whether Group is repeatable: Norepeat (e.g. group without ellipsis; the default), or Repeat (e.g. group...) -->

<!ENTITY % group.attriblist "INCLUDE">
<![%group.attriblist;[
<!ATTLIST group
choice(opt
|req
|plain)'opt'
rep(norepeat
|repeat)'norepeat'
%common.attrib;
%group.role.attrib;
%local.group.attrib;
>
<!--end of group.attriblist-->
<!--end of group.module-->
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<!ENTITY % sbr.module "INCLUDE">
<![%sbr.module;]
<!ENTITY % local.sbr.attrib "">
<!-- Synopsis break -->
<!ENTITY % sbr.role.attrib "%role.attrib;">

<!ENTITY % sbr.element "INCLUDE">
<![%sbr.element;]
<!ELEMENT sbr %ho; EMPTY>
<!--end of sbr.element-->
]

<!ENTITY % sbr.attlist "INCLUDE">
<![%sbr.attlist;]
<!ATTLIST sbr
%common.attrib;
%sbr.role.attrib;
%local.sbr.attrib;
>
<!--end of sbr.attlist-->
]

<!ENTITY % synopfragmentref.module "INCLUDE">
<![%synopfragmentref.module;]
<!ENTITY % local.synopfragmentref.attrib "">
<!ENTITY % synopfragmentref.role.attrib "%role.attrib;">

<!ENTITY % synopfragmentref.element "INCLUDE">
<![%synopfragmentref.element;]
<!ELEMENT synopfragmentref %ho; (#PCDATA)>
<!--end of synopfragmentref.element-->
]

<!-- to SynopFragment of complex synopsis
material for separate referencing -->

<!ENTITY % synopfragmentref.attlist "INCLUDE">
<![%synopfragmentref.attlist;]
<!ATTLIST synopfragmentref
%linkendreq.attrib;%common.attrib;
%synopfragmentref.role.attrib;
%local.synopfragmentref.attrib;
>
<!--end of synopfragmentref.attlist-->
]

<!ENTITY % synopfragment.module "INCLUDE">
<![%synopfragment.module;]
<!ELEMENT varargs %ho; EMPTY>
<!--end of varargs.element-->]]>

<!ENTITY % varargs.attlist "INCLUDE">
<![/%varargs.attlist;[>
<!ATTLIST varargs
%common.attrib;
%varargs.role.attrib;
%local.varargs.attrib;
>]
<![!--end of varargs.attlist-->]]>
<![!--end of varargs.module-->]]>

<![!-- Processing assumes that only one Parameter will appear in a
ParamDef, and that FuncParams will be used at most once, for
providing information on the "inner parameters" for parameters that
are pointers to functions. -->]

<![ENTITY % paramdef.module "INCLUDE">
<![/%paramdef.module;[>
<![ENTITY % local.paramdef.attrib ""]>
<![ENTITY % paramdef.role.attrib "%role.attrib;">>

<![ENTITY % paramdef.element "INCLUDE">
<![/%paramdef.element;[>
<![ELEMENT paramdef %ho; (#PCDATA
| type
| replaceable
| parameter
| funcparams)*>
<![!--end of paramdef.element-->]]>

<![ENTITY % paramdef.attlist "INCLUDE">
<![/%paramdef.attlist;[>
<![ATTLIST paramdef
choice(opt
| req)#IMPLIED
%common.attrib;
%paramdef.role.attrib;
%local.paramdef.attrib;
>]
<![!--end of paramdef.attlist-->]]>
<![!--end of paramdef.module-->]]>

<![ENTITY % funcparams.module "INCLUDE">
<![/%funcparams.module;[>
<![ENTITY % local.funcparams.attrib ""]>
<!ENTITY % funcparams.role.attrib "%role.attrib;">  

<!ENTITY % funcparams.element "INCLUDE">  
<!ENTITY % funcparams.element;[
 <!ELEMENT funcparams %ho; (%cptr.char.mix;)*>  
<!!-- end of funcparams.element--]>]]>  

<!ENTITY % funcparams.attlist "INCLUDE">  
<!ENTITY % funcparams.attlist;[
 <!ATTLIST funcparams
 %common.attrib;  
 %funcparams.role.attrib;  
 %local.funcparams.attrib;  
 >  
<!!-- end of funcparams.attlist-->]]>  
<!!-- end of funcparams.module--]>]]>  

<!!-- LineAnnotation (defined in the Inlines section, below)-->  
<!!-- Replaceable (defined in the Inlines section, below)-->  
<!!-- Function (defined in the Inlines section, below)-->  
<!!-- Parameter (defined in the Inlines section, below)-->  
<!!-- end of funcsynopsis.content.module-->]]>  

<!!-- ClassSynopsis ..................... -->  

<!ENTITY % classsynopsis.content.module "INCLUDE">  
<!ENTITY % classsynopsis.content.module;[

<!ENTITY % classsynopsis.module "INCLUDE">  
<!ENTITY % classsynopsis.module;[
<!ENTITY % local.classsynopsis.attrib "">  
<!ENTITY % classsynopsis.role.attrib "%role.attrib;">  

<!ENTITY % classsynopsis.element "INCLUDE">  
<!ENTITY % classsynopsis.element;[
<!ELEMENT classsynopsis %ho; ((ooclass|oointerface|ooexception)+,  
 (classsynopsisinfo  
 [fieldsynopsis|%method.synop.class;]*)*)>  
<!!-- end of classsynopsis.element-->]]>  

<!ENTITY % classsynopsis.attlist "INCLUDE">  
<!ENTITY % classsynopsis.attlist;[
<!ATTLIST classsynopsis
 languageCDATA#IMPLIED  
 class(class|interface)"class"  
 %common.attrib;  
 %classsynopsis.role.attrib;  
 %local.classsynopsis.attrib;  
}
type?,
((parameter,initializer?)|funcparams),
modifier*)>
</!--end of methodparam.element-->]]>

<!ENTITY % methodparam.attlist "INCLUDE">
<![%methodparam.attlist;[
<!ATTLIST methodparam
choice(opt
|req
|plain)"req"
rep(norepeat
|repeat)"norepeat"
%common.attrib;
%methodparam.role.attrib;
%local.methodparam.attrib;
>  
</!--end of methodparam.attlist-->]]>
</!--end of methodparam.module-->]]>
</!--end of classsynopsis.content.module-->]]>

<!-- Document information entities and elements .........................-->
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<!-- LegalNotice ...................... -->

<!-- Application: Type of action required for completion of the links to which the ModeSpec is relevant (e.g.,
<!ELEMENT othercredit %ho; ((personname|(%person.ident.mix;)+),
(personblurb|email|address)*)>
<!--end of othercredit.element-->

<!ENTITY % othercredit.attlist "INCLUDE">
<![%othercredit.attlist;[
<!ATTLIST othercredit
class(graphicdesigner
|productioneditor
|copyeditor
|technicaleditor
|translator
|other)#IMPLIED
%common.attrib;
%othercredit.role.attrib;
%local.othercredit.attrib;
>  
<![--end of othercredit.attlist--]]>
<![--(see "Personal identity elements" for %person.ident.mix;)-->
<![--end of othercredit.module--]]>

<![-- PageNums ......................... -->

<!ENTITY % pagenums.module "INCLUDE">
<![%pagenums.module;[
<!ENTITY % local.pagenums.attrib "">
<!ENTITY % pagenums.role.attrib "%role.attrib;">

<!ENTITY % pagenums.element "INCLUDE">
<![%pagenums.element;[
<!ELEMENT pagenums %ho; (%docinfo.char.mix;)*>
<![--end of pagenums.element--]]>

<![ENTITY % pagenums.attlist "INCLUDE">
<![%pagenums.attlist;[
<!ATTLIST pagenums
%common.attrib;
%pagenums.role.attrib;
%local.pagenums.attrib;
>  
<![--end of pagenums.attlist--]]>
<![--end of pagenums.module--]]>

<![-- Personal identity elements ....... -->

<![-- These elements are used only within Author, Editor, and
OtherCredit. -->
<!-- ProductName ...................... -->

<!ENTITY % productname.module "INCLUDE">
<![%productname.module;]
<!ENTITY % local.productname.attrib "">
<!ENTITY % productname.role.attrib "%role.attrib;">

<!ENTITY % productname.element "INCLUDE">
<![%productname.element;]
<!ELEMENT productname %ho; (%para.char.mix;)*>
<!--end of productname.element-->
]
>
<!ENTITY % productname.attlist "INCLUDE">
<![%productname.attlist;]
<!ATTLIST productname
|class(service
|trade
|registered
|copyright)
|trade'
%common.attrib;
%productname.role.attrib;
%local.productname.attrib;
>
<!--end of productname.attlist-->
]
>
<!-- Class: More precisely identifies the item the element names -->

<!ENTITY % productname.attlist "INCLUDE">
<![%productname.attlist;]
<!ATTLIST productname
class(service
|trade
|registered
|copyright)
|trade'
%common.attrib;
%productname.role.attrib;
%local.productname.attrib;
>
<!--end of productname.attlist-->
]
>
<!-- ProductNumber .................... -->

<!ENTITY % productnumber.module "INCLUDE">
<![%productnumber.module;]
<!ENTITY % local.productnumber.attrib "">
<!ENTITY % productnumber.role.attrib "%role.attrib;">

<!ENTITY % productnumber.element "INCLUDE">
<![%productnumber.element;]
<!ELEMENT productnumber %Ho; (%docinfo.char.mix;)*>
<!--end of productnumber.element-->
]
>
<!ENTITY % productnumber.attlist "INCLUDE">
<![%productnumber.attlist;]
<!ATTLIST productnumber
%common.attrib;
%productnumber.role.attrib;
%local.productnumber.attrib;
%idreq.common.attrib;
%co.role.attrib;
%local.co.attrib;
>
<!--end of co.attlist-->
</--end of co.module-->

<!ENTITY % coref.module "INCLUDE">
<![%coref.module;[
<!ENTITY % local.coref attrib "">
<!ENTITY % coref.role.attrib "%role.attrib;">

<!ENTITY % coref.element "INCLUDE">
<![%coref.element;[
<!ELEMENT coref %ho; EMPTY>
<!--end of coref.element-->
]

<!ENTITY % coref.attlist "INCLUDE">
<![%coref.attlist;[
<!ATTLIST coref
%label.attrib;
%linkendreq.attrib;
%common.attrib;
%coref.role.attrib;
%local.coref.attrib;
>
<!--end of coref.attlist-->
</--end of coref.module-->

<!ENTITY % command.module "INCLUDE">
<![%command.module;[
<!ENTITY % local.command.attrib "">
<!ENTITY % command.role.attrib "%role.attrib;">

<!ENTITY % command.element "INCLUDE">
<![%command.element;[
<!ELEMENT command %ho; (%cptr.char.mix;)*>
<!--end of command.element-->
]

<!ENTITY % command.attlist "INCLUDE">
<![%command.attlist;[
<!ATTLIST command
%moreinfo.attrib;
%common.attrib;
|record
|index
|view
|primarykey
|secondarykey
|foreignkey
|altkey
|procedure
|datatype
|constraint
|rule
|user
|group)#IMPLIED
%moreinfo.attrib;
%common.attrib;
%database.role.attrib;
%local.database.attrib;
>
<!--end of database.attlist-->]]>
<!--end of database.module-->]]>

<!ENTITY % email.module "INCLUDE">
<![email.module:]
<!ENTITY % local.email.attrib "">
<!ENTITY % email.role.attrib "%role.attrib;">  

<!ENTITY % email.element "INCLUDE">
<![email.element:]
<!ELEMENT email %ho; (%docinfo.char.mix;)*>
<!--end of email.element-->]]>

<!ENTITY % email.attlist "INCLUDE">
<![email.attlist:]
<!ATTLIST email
%common.attrib;
%email.role.attrib;
%local.email.attrib;
>
<!--end of email.attlist-->]]>
<!--end of email.module-->]]>

<!ENTITY % envar.module "INCLUDE">
<![envar.module:]
<!ENTITY % local.envar.attrib "">
<!ENTITY % envar.role.attrib "%role.attrib;">  

<!ENTITY % envar.element "INCLUDE">
<![envar.element:]

---

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<!-- Class: Type of medium named by the element; no default -->

<!--start of medialabel.module-->

<!ENTITY % medialabel.module "INCLUDE">
<![%medialabel.module;]
<!ENTITY % local.medialabel.attrib "">
<!ENTITY % medialabel.role.attrib "%role.attrib;">

<!ENTITY % medialabel.element "INCLUDE">
<![%medialabel.element;]
<!ELEMENT medialabel %ho; (%smallcptr.char.mix;)*>
<!ENTITY % medialabel.attlist "INCLUDE">
<![%medialabel.attlist;>
<!ATTLIST medialabel
class (cartridge
cdrom
disk
tape)#IMPLIED
%common.attrib;
%medialabel.role.attrib;
%local.medialabel.attrib;
>
<!--end of medialabel.attlist-->

<!--end of medialabel.module-->

Open Source Used In Cisco Modeling Labs 2.4 9527
<!ENTITY % option.element "INCLUDE">
<!ENTITY % option.attlist "INCLUDE">
<!ENTITY % optional.module "INCLUDE">
<!ENTITY % optional.element "INCLUDE">
<!ENTITY % optional.attlist "INCLUDE">

<!-- Class: Type of the Parameter; no default -->

<!ENTITY % parameter.element "INCLUDE">
<!ENTITY % parameter.attlist "INCLUDE">

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<!ENTITY % returnvalue.attlist "INCLUDE">
<!ENTITY % sgmltag.module "INCLUDE">
<!ENTITY % local.sgmltag.attrib "">
<!ENTITY % sgmltag.role.attrib ">%role.attrib;">
<!ENTITY % sgmltag.element "INCLUDE">
<!ENTITY % sgmltag.attlist "INCLUDE">

<!-- Class: Type of SGML construct the element names; no default -->

<!ENTITY % sgmltag.attlist "INCLUDE">
<![}%sgmltag.attlist;]
<!ATTLIST sgmltag
  class (attribute |attvalue |element |endtag
                          |emptytag
                          |genentity
                          |numcharref
                          |paramentity
                          |pi
                          |xmlpi
  |starttag
  |sgmlcomment
                          |prefix
                          |namespace
                          |localname)#IMPLIED
namespaceCDATA#IMPLIED
%common.attrib;
%sgmltag.role.attrib;
<!-- General words and phrases ............................................ -->

<!--ENTITY % abbrev.module "INCLUDE">
<!--%abbrev.module;[
<!--ENTITY % local.abbrev.attrib ""
<!--ENTITY % abbrev.role.attrib "%role.attrib;">

<!--ENTITY % abbrev.element "INCLUDE">
<!--%abbrev.element;[
<!--ELEMENT abbrev %ho; (%word.char.mix;)*
<!--!---end of abbrev.element-->

<!--ENTITY % abbrev.attlist "INCLUDE">
<!--%abbrev.attlist;[
<!--ATTLIST abbrev
%common.attrib;
%abbrev.role.attrib;
%local.abbrev.attrib;
>
<!--!---end of abbrev.attlist-->

<!--ENTITY % acronym.module "INCLUDE">
<!--%acronym.module;[
<!--ENTITY % local.acronym.attrib ""
<!--ENTITY % acronym.role.attrib "%role.attrib;">

<!--ENTITY % acronym.element "INCLUDE">
<!--%acronym.element;[
<!--ELEMENT acronym %ho; (%word.char.mix;)*
%acronym.exclusion;>
<!--!---end of acronym.element-->

<!--ENTITY % acronym.attlist "INCLUDE">
<!--%acronym.attlist;[
<!--ATTLIST acronym
%common.attrib;
%acronym.role.attrib;
%local.acronym.attrib;
>
<!--!---end of acronym.attlist-->

<!--ENTITY % acronym.module "INCLUDE">
<!--%acronym.module;[
<!--<!DOCTYPE%local.userinput.attrib;
>
<ENTITY % refentrytitle.attlist "INCLUDE">
<! [%refentrytitle.attlist;]
<!ATTLIST refentrytitle
%common.attrib;
%refentrytitle.role.attrib;
%local.refentrytitle.attrib;
>
<!--end of refentrytitle.attlist-->
</ENTITY % refentrytitle.module-->

<!ENTITY % manvolnum.module "INCLUDE">
<! [%manvolnum.module;]
<!ENTITY % local.manvolnum.attrib "">
<!ENTITY % namvolnum.role.attrib "%role.attrib;">

<!ENTITY % manvolnum.element "INCLUDE">
<! [%manvolnum.element;]
<!ELEMENT manvolnum %ho; (%word.char.mix;)*>
<!--end of manvolnum.element-->
</ENTITY % manvolnum.attlist-->
</ENTITY % manvolnum.module-->

<!ENTITY % citetitle.module "INCLUDE">
<! [%citetitle.module;]
<!ENTITY % local.citetitle.attrib "">
<!ENTITY % citetitle.role.attrib "%role.attrib;">

<!ENTITY % citetitle.element "INCLUDE">
<! [%citetitle.element;]
<!ELEMENT citetitle %ho; (%para.char.mix;)*>
<!--end of citetitle.element-->
</ENTITY % citetitle.attlist-->
</ENTITY % citetitle.module-->

<-- Pubwork: Genre of published work cited; no default -->

<ENTITY % citetitle.attlist "INCLUDE">
<! [%citetitle.attlist;]
<!ATTLIST citetitle
%common.attrib;
%citetitle.role.attrib;
%local.citetitle.attrib;
>
<!--end of citetitle.attlist-->
</ENTITY % citetitle.module-->

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symbol
inlinegraphic

| inlinemediaobject
| %base.char.class;
| %other.char.class;)*
%ubiq.exclusion;>
<![--end of superscript.element--]]>

<!ENTITY % superscript.attlist "INCLUDE">
<![%superscript.attlist;[
<!ATTLIST superscript
%common.attrib;
%ssscript.role.attrib;
%local.ssscript.attrib;
>
<![--end of superscript.attlist--]]>
<![--end of ssscript.module--]]>

<!ENTITY % trademark.module "INCLUDE">
<![%trademark.module;[
<!ENTITY % local.trademark.attrib "">
<!ENTITY % trademark.role.attrib "%role.attrib;">  

<!ENTITY % trademark.element "INCLUDE">
<![%trademark.element;[
<!ELEMENT trademark %ho; (#PCDATA
| %link.char.class;
| %tech.char.class;
| %base.char.class;
| %other.char.class;
| inlinegraphic
  | inlinemediaobject
| emphasis)-->>
<![--end of trademark.element--]]>

<-- Class: More precisely identifies the item the element names -->

<!ENTITY % trademark.attlist "INCLUDE">
<![%trademark.attlist;[
<!ATTLIST trademark
class(service
| trade
| registered
| copyright\'s\'trade'
%common.attrib;
%trademark.role.attrib;
%local.trademark.attrib;
<!ENTITY % ulink.role.attrib "%role.attrib;">  

<!ENTITY % ulink.element "INCLUDE">  
<![%ulink.element;]  
<!ELEMENT ulink %ho; (%para.char.mix;)*  
%links.exclusion;>  
<!!--end of ulink.element-->]]>  

<!!-- URL: uniform resource locator; the target of the ULink -->  
<!!-- Type: Freely assignable parameter -->

<!ENTITY % ulink.attlist "INCLUDE">  
<![%ulink.attlist;]  
<!ATTLIST ulink  
urlCDATA#REQUIRED  
typeCDATA#IMPLIED  
xrefstyleCDATA#IMPLIED  
%common.attrib;  
%ulink.role.attrib;  
%local.ulink.attrib;  
>  
<!!--end of ulink.attlist-->]]>  
<!!--end of ulink.module-->]]>  

<!ENTITY % footnoteref.module "INCLUDE">  
<![%footnoteref.module;]  
<!ENTITY % local.footnoteref.attrib "">  
<!ENTITY % footnoteref.role.attrib "%role.attrib;">  

<!ENTITY % footnoteref.element "INCLUDE">  
<![%footnoteref.element;]  
<!ELEMENT footnoteref %ho; EMPTY>  
<!!--end of footnoteref.element-->]]>  

<!!-- to footnote content supplied elsewhere -->

<!ENTITY % footnoteref.attlist "INCLUDE">  
<![%footnoteref.attlist;]  
<!ATTLIST footnoteref  
%linkendreq.attrib;%label.attrib;  
%common.attrib;  
%footnoteref.role.attrib;  
%local.footnoteref.attrib;  
>  
<!!--end of footnoteref.attlist-->]]>  
<!!--end of footnoteref.module-->]]>
No license file was found, but licenses were detected in source scan.

<!-- ...................................................................... -->
<!-- DocBook XML information pool module V4.4 ......................... -->
<!-- File dbpoolx.mod ..................................................... -->

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Organization for the Advancement of Structured Information 
Standards (OASIS). 

$Id: dbpoolx.mod,v 1.107 2005/01/27 13:52:00 nwalsh Exp $

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<!-- }

<!-- This module contains the definitions for the objects, inline 
elements, and so on that are available to be used as the main 
content of DocBook documents. Some elements are useful for general 
publishing, and others are useful specifically for computer 
documentation.

This module has the following dependencies on other modules:

- It assumes that a %notation.class; entity is defined by the 
driver file or other high-level module. This entity is 
referenced in the NOTATION attributes for the graphic-related and 
ModeSpec elements.

- It assumes that an appropriately parameterized table module is
available for use with the table-related elements.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbpool PUBLIC
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.4//EN"
"dbpoolx.mod">
%dbpool;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!-- Forms entities ....................................................... -->
<!ENTITY % forminlines.hook "">
<!ENTITY % forms.hook "">

<!-- General-purpose semantics entities ......................... -->
<!ENTITY % yesorno.attvals"CDATA">

<!-- Entities for module inclusions ................................-- -->
<!ENTITY % dbpool.redecl.module "IGNORE">

<!-- Entities for element classes and mixtures .................... -->
<!ENTITY % local.ndxterm.class "">
<!ENTITY % ndxterm.class "indexterm %local.ndxterm.class;">

<!-- Object-level classes .......................................... -->
<!ENTITY % local.list.class "">
<!ENTITY % list.class "calloutlist|glosslist|bibliolist|itemizedlist|orderedlist|segmentedlist|simplelist|variablelist %local.list.class;">
para.char.mix       X X X X X X X X X
title.char.mix      X X X X X X X X X
ndxterm.char.mix    X X X X X X X X X a
ctpr.char.mix       X X X X X a
smalleptr.char.mix  X b a
word.char.mix       X c X X X a
docinfo.char.mix    X d X b X a

a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.

-->
Entities for attributes and attribute components .................. -->

<!-- Effectivity attributes ............................................. -->

<!-- Arch: Computer or chip architecture to which element applies; no
default -->

<!ENTITY % arch.attrib
"archCDATA#IMPLIED">

<!-- Condition: General-purpose effectivity attribute -->

<!ENTITY % condition.attrib
"conditionCDATA#IMPLIED">

<!-- Conformance: Standards conformance characteristics -->

<!ENTITY % conformance.attrib
"conformanceNMTOKENS#IMPLIED">

<!-- OS: Operating system to which element applies; no default -->

<!ENTITY % os.attrib
"osCDATA#IMPLIED">

<!-- Revision: Editorial revision to which element belongs; no default -->

<!ENTITY % revision.attrib
"revisionCDATA#IMPLIED">

<!-- Security: Security classification; no default -->

<!ENTITY % security.attrib
"securityCDATA#IMPLIED">

<!-- UserLevel: Level of user experience to which element applies; no default -->

<!ENTITY % userlevel.attrib
"userlevelCDATA#IMPLIED">

<!-- Vendor: Computer vendor to which element applies; no default -->

<!ENTITY % vendor.attrib
"vendorCDATA#IMPLIED">

<!-- Wordsize: Computer word size (32 bit, 64 bit, etc.); no default -->

<!ENTITY % wordsize.attrib
"wordsizeCDATA#IMPLIED"
<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib "
 %arch.attrib;
 %condition.attrib;
 %conformance.attrib;
 %os.attrib;
 %revision.attrib;
 %security.attrib;
 %userlevel.attrib;
 %vendor.attrib;
 %wordsize.attrib;
 %local.effectivity.attrib;">

<!-- Common attributes .................................................... -->

<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib "id		ID		#IMPLIED">

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib "id		ID		#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib "lang		CDATA		#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib "remapCDATA#IMPLIED">

<!-- Role: New role of element in local environment; no default -->

<!ENTITY % role.attrib "roleCDATA#IMPLIED">
<!ENTITY % idreq.common.attrib "%idreq.attrib; %lang.attrib; %remap.attrib; %xreflabel.attrib; %revisionflag.attrib; %effectivity.attrib; %dir.attrib; %xml-base.attrib; %local.common.attrib;">

<!ENTITY % local.graphics.attrib "">

<!-- EntityRef: Name of an external entity containing the content of the graphic -->
<!-- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!-- Format: Notation of the element content, if any -->
<!-- SrcCredit: Information about the source of the Graphic -->
<!-- Width: Same as CALS reprodid (desired width) -->
<!-- Depth: Same as CALS reprodep (desired depth) -->
<!-- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!-- Scale: Conflation of CALS hscale and vscale -->
<!-- Scalefit: Same as CALS scalefit -->

<!ENTITY % graphics.attrib "entityref ENTITY#IMPLIED fileref CDATA#IMPLIED format(%notation.class;) #IMPLIED srccredit CDATA#IMPLIED width CDATA#IMPLIED contentwidth CDATA#IMPLIED depth CDATA#IMPLIED contentdepth CDATA#IMPLIED align(left | right | center)#IMPLIED valign(top | middle)"
<!ENTITY % local.keyaction.attrib "">

<!-- Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value -->
<!ENTITY % keyaction.attrib "">

<!-- Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter -->
<!ENTITY % label.attrib "">

<!-- xml:space: whitespace treatment -->
<!ENTITY % xml-space.attrib "">

<!-- Format: whether element is assumed to contain significant white space -->
<!ENTITY % linespecific.attrib "">

<!ENTITY % local.graphics.attrib;">

scaleCDATA#IMPLIED
scalefit=yesorno.attrvals;
#IMPLIED
%local.graphics.attrib;" 
>

<!-- Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value -->
<!ENTITY % keyaction.attrib "">

action(click
double-click
|press
|seq
|simul
|other)#IMPLIED
otheractionCDATA#IMPLIED
%local.keyaction.attrib;" 
>

<!-- Label: Identifying number or string; default is usually the appropriate number or string autogenerated by a formatter -->
<!ENTITY % label.attrib "">

"labelCDATA#IMPLIED">

<!-- xml:space: whitespace treatment -->
<!ENTITY % xml-space.attrib "">

<!-- Format: whether element is assumed to contain significant white space -->
<!ENTITY % linespecific.attrib "">

"formatNOTATION
(linespecific)'linespecific'
<ENTITY % local.person.ident.mix "">
<ENTITY % person.ident.mix
"honorific|firstname|surname|lineage|othername|affiliation|authorblurb|contrib %local.person.ident.mix;">

<!ENTITY % local.bibliocomponent.mix "">
<!ENTITY % bibliocomponent.mix
"abbrev|abstract|address|artpagenums|author|authorgroup|authorinitials|bibliomisc|biblioset|collab|confgroup|contractnum|contractsponsor|copyright|corpauthor|corpname|corpcredit|date|edition|editor|invpartnumber|isbn|issn|issuemnum|orgname

...
<ENTITY % bibliomisc.attlist "INCLUDE">
<!ATTLIST bibliomisc
%common.attrib;
%bibliomisc.role.attrib;
%local.bibliomisc.attrib;
>
<!--end of bibliomisc.attlist-->

<!ENTITY % bibliomisc.module "INCLUDE">
<![%bibliomisc.module:]
<!ENTITY % local.bibliomisc.attrib "">
<!ENTITY % bibliomisc.role.attrib "%role.attrib;">

<!ENTITY % bibliomisc.element "INCLUDE">
<![%bibliomisc.element:]
<!ELEMENT bibliomisc %ho; (%para.char.mix;)*>
<!ENTITY % subjectset.attlist "INCLUDE">
<![subjectset.attlist;[
<!ATTLIST subjectset
scheme NMTOKEN #IMPLIED
%common.attrib;
%scheme.role.attrib;
%local.subjectset.attrib;
> 
<!--end of subjectset.attlist-->]]>
<!--end of subjectset.module-->]

<!ENTITY % subject.module "INCLUDE">
<![subject.module;[
<!ENTITY % local.subject.attrib "" >
<!ENTITY % subject.role.attrib "%role.attrib;" >

<!ENTITY % subject.element "INCLUDE">
<![subject.element;[
<!ELEMENT subject %ho; (subjectterm+)>
<!--end of subject.element-->]]>

<!ENTITY % subject.attlist "INCLUDE">
<![subject.attlist;[
<!ATTLIST subject
weight CDATA #IMPLIED
%common.attrib;
%scheme.role.attrib;
%local.subject.attrib;
> 
<!--end of subject.attlist-->]]>
<!--end of subject.module-->]

<!ENTITY % subjectterm.module "INCLUDE">
<![subjectterm.module;[
<!ENTITY % local.subjectterm.attrib "" >
<!ENTITY % subjectterm.role.attrib "%role.attrib;" >

<!ENTITY % subjectterm.element "INCLUDE">
<![subjectterm.element;[
<!ELEMENT subjectterm %ho; (#PCDATA)> 
<!--end of subjectterm.element-->]]>

<!ENTITY % subjectterm.attlist "INCLUDE">
<![subjectterm.attlist;[

<!-- Weight: Ranking of this group of SubjectTerms relative to others, 0 is low, no highest value specified -->
<!ENTITY % answer.module "INCLUDE">
<![ %answer.module; [
<!ENTITY % local.answer.attrib "">
<!ENTITY % answer.role.attrib "%role.attrib;">

<!ENTITY % answer.element "INCLUDE">
<![ %answer.element; [ 
<!ELEMENT answer %ho; (label?, (%qandaset.mix;)*, qandaentry*)>
<!!---end of answer.element--->]]>

<!ENTITY % answer.attlist "INCLUDE">
<![ %answer.attlist; [ 
<!ATTLIST answer 
%common.attrib; 
%answer.role.attrib; 
%local.answer.attrib; 
> 
<!--end of answer.attlist--->]]> 
<!--end of answer.module--->]]>

<!ENTITY % label.module "INCLUDE">
<![ %label.module; [ 
<!ENTITY % local.label.attrib "">
<!ENTITY % label.role.attrib "%role.attrib;"> 

<!ENTITY % label.element "INCLUDE">
<![ %label.element; [ 
<!ELEMENT label %ho; (%word.char.mix;)*> 
<!!--end of label.element--->]]>

<!ENTITY % label.attlist "INCLUDE">
<![ %label.attlist; [ 
<!ATTLIST label 
%common.attrib; 
%label.role.attrib; 
%local.label.attrib; 
> 
<!--end of label.attlist--->]]> 
<!--end of label.module--->]]> 
<!--end of qandaset.content.module--->]]>

<!-- Procedure ......................... -->

<!ENTITY % procedure.content.module "INCLUDE">
<![ %procedure.content.module;[ 
<!ENTITY % procedure.module "INCLUDE"> 
<![ %procedure.module;]
<!ENTITY % local.procedure.attrib "">  
<!ENTITY % procedure.role.attrib "%role.attrib;">  

<!ENTITY % procedure.element "INCLUDE">  
<!ENTITY % procedure.attlist "INCLUDE">  

![%step.module;

<!-- Performance: Whether the Step must be performed -->

<!-- not #REQUIRED! -->

<!ENTITY % step.attlist "INCLUDE">  

<!ENTITY % substeps.module "INCLUDE">
<!ENTITY % attribution.attlist "INCLUDE">
<!ATTLIST attribution
%common.attrib;
%attribution.role.attrib;
%local.attribution.attrib;
>
<!--end of attribution.attlist-->
<!--end of attribution.module-->

<!ENTITY % bridgehead.module "INCLUDE">
<![%bridgehead.module:;]
<!ENTITY % local.bridgehead.attrib "";>
<!ENTITY % bridgehead.role.attrib "%role.attrib;";>

<!ENTITY % bridgehead.element "INCLUDE">
<![%bridgehead.element:;]
<!ELEMENT bridgehead %ho; (%title.char.mix;)*>  
<!--end of bridgehead.element-->

<!-- Renderas: Indicates the format in which the BridgeHead should appear -->

<!ENTITY % bridgehead.attlist "INCLUDE">
<![%bridgehead.attlist:;]
<!ATTLIST bridgehead
renderas(other
|sect1
|sect2
|sect3
|sect4
|sect5)#IMPLIED
%common.attrib;
%bridgehead.role.attrib;
%local.bridgehead.attrib;
>
<!--end of bridgehead.attlist-->
<!--end of bridgehead.module-->

<!ENTITY % remark.module "INCLUDE">
<![%remark.module:;]
<!ENTITY % local.remark.attrib "";>
<!ENTITY % remark.role.attrib "%role.attrib;";>

<!ENTITY % remark.element "INCLUDE">
<![%remark.element:;]
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Open Source Used In Cisco Modeling Labs 2.4
> Subject: List of subjects; keywords for the definition -->

<!ENTITY % glossdef.attlist "INCLUDE">
<![glossdef.attlist;[
<!ATTLIST glossdef
subject CDATA #IMPLIED
%common.attrib;
%glossdef.role.attrib;
%local.glossdef.attrib;
>]
<!--end of glossdef.attlist-->]]>
<!--end of glossdef.module-->]]>

<!ENTITY % glosssee.module "INCLUDE">
<![glosssee.module;[
<!ENTITY % local.glosssee.attrib "">
<!ENTITY % glosssee.role.attrib "%role.attrib;">

<!ENTITY % glosssee.element "INCLUDE">
<![glosssee.element;[
<!ELEMENT glosssee %ho; (%para.char.mix;)*>
<!--end of glosssee.element-->]]>

<!-- OtherTerm: Reference to the GlossEntry whose GlossTerm should be displayed at the point of the GlossSee -->

<!ENTITY % glosssee.atlist "INCLUDE">
<![glosssee.atlist;[
<!ATTLIST glosssee
otherterm IDREF #IMPLIED
%common.attrib;
%glosssee.role.attrib;
%local.glosssee.attrib;
>]
<!--end of glosssee.atlist-->]]>
<!--end of glosssee.module-->]]>

<!ENTITY % glossseealso.module "INCLUDE">
<![glossseealso.module;[
<!ENTITY % local.glossseealso.attrib "">
<!ENTITY % glossseealso.role.attrib "%role.attrib;">

<!ENTITY % glossseealso.element "INCLUDE">
<![glossseealso.element;[
<!ELEMENT glossseealso %ho; (%para.char.mix;)*>
Open Source Used In Cisco Modeling Labs 2.4  9603
<!ENTITY % orderedlist.module "INCLUDE">
<![%orderedlist.module:]
<!ENTITY % local.orderedlist.attrib "" />
<!ENTITY % orderedlist.role.attrib "%role.attrib;">

<!ENTITY % orderedlist.element "INCLUDE">
<![%orderedlist.element:]
<!ELEMENT orderedlist %ho; (blockinfo?, (%formalobject.title.content;)?,
(listpreamble.mix;)*, listitem+)> 

<!-- Numeration: Style of ListItem numbered; default is expected
to be Arabic -->
<!-- InheritNum: Specifies for a nested list that the numbering
of ListItems should include the number of the item
within which they are nested (e.g., 1a and 1b within 1,
rather than a and b) -->
<!-- Continuation: Where list numbering begins afresh (Restarts,
the default) or continues that of the immediately preceding
list (Continues) -->
<!-- Spacing: Whether the vertical space in the list should be
compressed -->

<!ENTITY % orderedlist.attlist "INCLUDE">
<![%orderedlist.attlist:]
<!ATTLIST orderedlist
numeration(arabic|upperalpha|loweralpha|upperroman|lowerroman)#IMPLIED
inheritnum(inherit|ignore)"ignore"
continuation(continues|restarts|"restarts"
spacing(normal|compact)#IMPLIED
%common.attrib;
%orderedlist.role.attrib;
%local.orderedlist.attrib;
> 
<!--end of orderedlist.attlist-->]]>
<!--end of orderedlist.module-->]]>
Columns: The number of columns the array should contain

Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results.
Open Source Used In Cisco Modeling Labs 2.4 9609
arearefsIDREFS#REQUIRED
%common.attrib;
%callout.role.attrib;
%local.callout.attrib;
>
<!--end of callout.attlist-->]]>
<!--end of callout.module-->]]>
<!--end of calloutlist.content.module-->]]>
</!--- .......................... -->
</!--- Objects .......................... -->

<!-- Examples etc. ............... -->

<!ENTITY % example.module "INCLUDE">
<![%example.module;[
<!ENTITY % local.example.attrib "";>
<!ENTITY % example.role.attrib "%role.attrib;";>
<!ENTITY % example.element "INCLUDE">
<![%example.element;[
<!ELEMENT example %ho; (blockinfo?, (%formalobject.title.content;), (%example.mix;)+)>
%formal.exclusion;>
<!ATTLIST example
floatstyleCDATA#IMPLIED
%label.attrib;
%width.attrib;
%common.attrib;
%example.role.attrib;
%local.example.attrib;
>
<!--end of example.element-->]]>
</!---end of example.module-->]]>

<!ENTITY % informalexample.module "INCLUDE">
<![%informalexample.module;[
<!ENTITY % local.informalexample.attrib "";>
<!ENTITY % informalexample.role.attrib "%role.attrib;";>
<!ENTITY % informalexample.element "INCLUDE">
<![%informalexample.element;[
<!ELEMENT informalexample %ho; (blockinfo?, (%formalobject.title.content;), (%example.mix;)+)>
</!---end of informalexample.element-->]]>
Units: global unit of measure in which coordinates in this spec are expressed:
- CALSPair "x1.y1 x2.y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content

- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "linespecific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->
<!-- OtherUnits: User-defined units -->

<!ENTITY % areaspec.attlist "INCLUDE">
<![%areaspec.attlist;[
<!ATTLIST areaspec
units(calspair |linecolumn |linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
> </!!--end of areaspec.attlist-->]]>
<!--end of areaspec.module-->]]>

<!ENTITY % area.module "INCLUDE">
<![%area.module;[
<!ENTITY % local.area.attrib "">
<!ENTITY % area.role.attrib "%role.attrib;"> 

<!ENTITY % area.element "INCLUDE">
<![%area.element;]
%local.videodata.attrib;
>
<!--end of videodata.attlist-->
<!--end of videodata.module-->

<!ENTITY % audiodata.module "INCLUDE">
<![ %audiodata.module; [ 
<!ENTITY % local.audiodata.attrib ""
<!ENTITY % audiodata.role.attrib "%role.attrib;">

<!--end of audiodata.element-->
]
]]>
<![ %audiodata.attlist; [ 
<!ATTLIST audiodata
%objectdata.attrib;
%common.attrib;
%audiodata.role.attrib;
%local.audiodata.attrib;
>
<!--end of audiodata.attlist-->
<!--end of audiodata.module-->

<!ENTITY % imagedata.module "INCLUDE">
<![ %imagedata.module; [ 
<!ENTITY % local.imagedata.attrib ""
<!ENTITY % imagedata.role.attrib "%role.attrib;">

<!--Width: Same as CALS reprowid (desired width)-->
<!--Depth: Same as CALS reprodep (desired depth)-->
<!--Align: Same as CALS hplace with 'none' removed; #IMPLIED means
application-specific-->
<!--Scale: Conflation of CALS hscale and vscale-->
<!--Scalefit: Same as CALS scalefit-->
<![ %imagedata.attlist; [ 
widthCDATA#IMPLIED
contentwidthCDATA#IMPLIED
<!-- Equations ........................ -->

<!-- This PE provides a mechanism for replacing equation content, -->
<!-- perhaps adding a new or different model (e.g., MathML) -->
<!ENTITY % equation.content "(alt?, (graphic+[mediaobject+])")>
<!ENTITY % inlineequation.content "(alt?, (graphic+[inlinemediaobject+])")>

<!ENTITY % equation.module "INCLUDE">
<![ %equation.module; [ 
<!ENTITY % local.equation.attrib "">
<!ENTITY % equation.role.attrib "%role.attrib;"> 

<!ENTITY % equation.element "INCLUDE">
<![ %equation.element; [ 
<!ENTITY % local.equation.content attrb "">
<!ENTITY % equation.content.role attrib "%role.attrib;"> 

<!-- Equations ........................ -->

<!-- This PE provides a mechanism for replacing equation content, -->
<!-- perhaps adding a new or different model (e.g., MathML) -->
<!ENTITY % equation.content "(alt?, (graphic+[mediaobject+])")>
<!ENTITY % inlineequation.content "(alt?, (graphic+[inlinemediaobject+])")>

<!ENTITY % equation.module "INCLUDE">
<![ %equation.module; [ 
<!ENTITY % local.equation.attrib "">
<!ENTITY % equation.role.attrib "%role.attrib;"> 

<!ENTITY % equation.element "INCLUDE">
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<!ENTITY % inlineequation.attlist "INCLUDE">
<![%inlineequation.attlist;]
<!ATTLIST inlineequation
%common.attrib;
%inlineequation.role.attrib;
%local.inlineequation.attrib;
>
<!--end of inlineequation.attlist-->]]>
<!--end of inlineequation.module-->]]>

<!ENTITY % alt.module "INCLUDE">
<![alt.module;[
<!ENTITY % local.alt.attrib "">
<!ENTITY % alt.role.attrib "%role.attrib;">

<!ENTITY % alt.element "INCLUDE">
<![alt.element;[
<!ELEMENT alt %ho; (#PCDATA)>
<!--end of alt.element-->]]>

<!ENTITY % alt.attlist "INCLUDE">
<![alt.attlist;[
<!ATTLIST alt
%common.attrib;
%alt.role.attrib;
%local.alt.attrib;
>
<!--end of alt.attlist-->]]>
<!--end of alt.module-->]]>

<!-- Tables ......................... -->

<!ENTITY % table.module "INCLUDE">
<![table.module;[

<!-- Choose a table model. CALS or OASIS XML Exchange -->

<!ENTITY % cals.table.module "INCLUDE">
<![cals.table.module;[
<!ENTITY % exchange.table.module "IGNORE">]]
<!ENTITY % exchange.table.module "INCLUDE">

<!-- Do we allow the HTML table model as well? -->
<!ENTITY % allow.html.tables "INCLUDE">
<![allow.html.tables;[
<!-- xhtmltbl.mod defines HTML tables and sets parameter -->
entities so that, when the CALS table module is read, we end up allowing any table to be CALS or HTML.

i.e. This include must come first! →

<!ENTITY % htmltbl PUBLIC "-//OASIS//ELEMENTS DocBook XML HTML Tables V4.4//EN" "htmltblx.mod"; %htmltbl; <!--end of allow.html.tables-->]

<!ENTITY % tables.role.attrib "%role.attrib;">

<![%cals.table.module;[
<!-- Add label and role attributes to table and informaltable -->
<!ENTITY % bodyatt "
floatstyle CDATA #IMPLIED
rowheader (firstcol|norowheader) #IMPLIED
%label.attrib;" >

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row, EntryTbl, and Entry (and InformalTable element). -->
<!ENTITY % secur "%common.attrib; %tables.role.attrib;"> 

<!ENTITY % common.table.attribs "%bodyatt; %secur;"> 

<!-- Content model for Table. -->
<!ENTITY % tbl.table.mdl "(blockinfo?, (%formalobject.title.content;), (%ndxterm.class;)*, textobject*, (graphic+|mediaobject+|tgroup+))"> 

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "%para.char.mix; | %tabentry.mix;"> 

<!-- Reference CALS Table Model -->
<!ENTITY % tablemodel PUBLIC "-//OASIS//DTD DocBook CALS Table Model V4.4//EN" "calstblx.dtd"> ]>

<![%exchange.table.module;[ 
<!-- Add common attributes and the Label attribute to Table and -->
<!ENTITY % informaltable.element "INCLUDE">
<!ATTLIST informaltable frame (%tbl.frame.attval;)	#IMPLIED
colsep %yesorno.attvals; #IMPLIED
rowsep %yesorno.attvals; #IMPLIED
%common.table.attribs;
%tbl.table.att;
%local.informaltable.attrib;
> 
<!-- end of informaltable.attlist-->
<!-- end of informaltable.module-->

<!ENTITY % caption.module "INCLUDE">
<!ENTITY % local.caption.attrib "">
<!ENTITY % caption.role.attrib "%role.attrib;"> 

<!ENTITY % caption.element "INCLUDE">
<!ENTITY % caption.attlist.content "
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;

<!-- Frame, Colsep, and Rowsep must be repeated because 
they are not in entities in the table module. -->
<!-- includes TabStyle, ToCentry, ShortEntry, 
Orient, PgWide -->
<!-- includes Label -->
<!-- includes common attributes -->

<!ENTITY % informaltable.attlist "INCLUDE">
<!ATTLIST informaltable attlist:
frame (%tbl.frame.attval;) #IMPLIED
colsep %yesorno.attvals; #IMPLIED
rowsep %yesorno.attvals; #IMPLIED
%common.table.attribs;
%tbl.table.att;
%local.informaltable.attrib;
> 
<!-- end of informaltable.attlist-->
<!-- end of informaltable.module-->

<!ENTITY % caption.module "INCLUDE">
<!ENTITY % local.caption.attrib "">
<!ENTITY % caption.role.attrib "%role.attrib;"> 

<!ENTITY % caption.element "INCLUDE">
<!ENTITY % caption.attlist content "
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;

<!-- attrs comes from HTML tables ... -->
<!ENTITY % allow.html.tables; [ 
<!-- common.attrib, but without ID because ID is in attrs -->
<!ENTITY % caption.attlist.content "
%lang.attrib;
%remap.attrib;
%xreflabel.attrib;
%revisionflag.attrib;
%effectivity.attrib;
<!ATTLIST funcprototype
%
funcprototype.role.attrib;
%
local.funcprototype.attrib;
>
<!--end of funcprototype.attlist-->]]>
<!--end of funcprototype.module-->]]>

<!--end of funcprototype.attlist-->

<!ENTITY % funcdef.module "INCLUDE">
<![funcdef.module;[
<!ENTITY % local.funcdef.attrib "">
<!ENTITY % funcdef.role.attrib "%role.attrib;">

<!--end of funcdef.element-->
]]>

<!ENTITY % void.module "INCLUDE">
<![void.module;[
<!ENTITY % local.void.attrib "">
<!ENTITY % void.role.attrib "%role.attrib;">

<!--end of void.element-->
]]>

<!ENTITY % void.attlist "INCLUDE">
<![void.attlist;[
<!ATTLIST void
%
void.role.attrib;
%
local.void.attrib;
>
<!--end of void.attlist-->]]>
<!--end of void.module-->]]>

<!--end of void.attlist-->

<!ATTLIST voidattlist
%
void.role.attrib;
%
local.void.attrib;
>
<ENTITY % methodname.module "INCLUDE">
<![%methodname.module:;]
<ENTITY % methodparam.module "INCLUDE">
<![%methodparam.module;]
<ENTITY % local.methodparam.attrib """>
<ENTITY % methodparam.role.attrib "%role.attrib;">

<ENTITY % methodparam.element "INCLUDE">
<![%methodparam.element;]
<ELEMENT methodparam %ho; (modifier*,
  type?,
  ((parameter,initializer?)|funcparams),
  modifier*)>
<--end of methodparam.element-->

<ENTITY % methodparam.attlist "INCLUDE">
<![%methodparam.attlist;]
<ATTLIST methodparam
  choice(opt
  |req
  |plain)"req"
  rep(norepeat
  |repeat)"norepeat"
  %common.attrib;
  %methodparam.role.attrib;
  %local.methodparam.attrib;
  >
<--end of methodparam.attlist-->

<--end of methodparam.module-->

<--end of classsynopsis.content.module-->

<-- ................................................................. -->
<-- !-- Document information entities and elements ......................... -->

<-- The document information elements include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies. -->

<-- ................................ ........ -->

<ENTITY % docinfo.content.module "INCLUDE">
<![%docinfo.content.module:;]

<-- Ackno ................................ -->

<ENTITY % ackno.module "INCLUDE">
<![%ackno.module;]
<!ELEMENT fax %ho; (%docinfo.char.mix;)*>
<!--end of fax.element-->]]>

<!ENTITY % fax.attlist "INCLUDE">
<![%fax.attlist;]
<!ATTLIST fax
%common.attrib;
%fax.role.attrib;
%local.fax.attrib;
> 
<!--end of fax.attlist-->]]>
<!--end of fax.module-->]]>

<!-- Email (defined in the Inlines section, below)-->

<!ENTITY % otheraddr.module "INCLUDE">
<![%otheraddr.module;]
<!ENTITY % local.otheraddr.attrib "">
<!ENTITY % otheraddr.role.attrib "%role.attrib;">

<!ENTITY % otheraddr.element "INCLUDE">
<![%otheraddr.element;]
<!ELEMENT otheraddr %ho; (%docinfo.char.mix;)*>
<!--end of otheraddr.element-->]]>
<!ENTITY % otheraddr.attlist "INCLUDE">
<![%otheraddr.attlist;]
<!ATTLIST otheraddr
%common.attrib;
%otheraddr.role.attrib;
%local.otheraddr.attrib;
> 
<!--end of otheraddr.attlist-->]]>
<!--end of otheraddr.module-->]]>
<!--end of address.content.module-->]]>

<!-- Affiliation ...................... -->

<!ENTITY % affiliation.content.module "INCLUDE">
<![%affiliation.content.module;]
<!ENTITY % affiliation.module "INCLUDE">
<![%affiliation.module;]
<!ENTITY % local.affiliation.attrib "">
<!ENTITY % affiliation.role.attrib "%role.attrib;">

<!ENTITY % affiliation.element "INCLUDE">
<![%affiliation.element;]
<!ELEMENT affiliation %ho; (shortaffil?, jobtitle*, orgname?, orgdiv*,
Open Source Used In Cisco Modeling Labs 2.4  9660
Open Source Used In Cisco Modeling Labs 2.4  9663
```
<ENTITY % accel.module "INCLUDE">
<![%accel.module;]
<ENTITY % local.accel.attrib "">
<ENTITY % accel.role.attrib "%role.attrib;">

<ENTITY % accel.element "INCLUDE">
<![%accel.element;]
<ELEMENT accel %ho; (%smalchptr.char.mix;)*>
<!--end of accel.element-->]]>

<ENTITY % accel.attlist "INCLUDE">
<![%accel.attlist;]
<!ATTLIST accel
%common.attrib;
%accel.role.attrib;
%local.accel.attrib;
>
<!--end of accel.attlist-->]]>
<!--end of accel.module-->]]>

<ENTITY % action.module "INCLUDE">
<![%action.module;]
<ENTITY % local.action.attrib "">
<ENTITY % action.role.attrib "%role.attrib;">

<ENTITY % action.element "INCLUDE">
<![%action.element;]
<ELEMENT action %ho; (%cptr.char.mix;)*>
<!--end of action.element-->]]>

<ENTITY % action.attlist "INCLUDE">
<![%action.attlist;]
<!ATTLIST action
%moreinfo.attrib;
%common.attrib;
%action.role.attrib;
%local.action.attrib;
>
<!--end of action.attlist-->]]>
<!--end of action.module-->]]>

<ENTITY % application.module "INCLUDE">
<![%application.module;]
<ENTITY % local.application.attrib "">
<ENTITY % application.role.attrib "%role.attrib;">

<ENTITY % application.element "INCLUDE">
```

---

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<!ENTITY % co.module "INCLUDE">
<![ %co.module;]
<!ENTITY % local.co.attrib "">
<!-- CO is a callout area of the LineColumn unit type (a single character position); the position is directly indicated by the location of CO. -->
<!ENTITY % co.role.attrib "%role.attrib;">

<!ENTITY % co.element "INCLUDE">
<![ %co.element;]
<!ELEMENT co %ho; EMPTY>
<!-- bug number/symbol override or initialization -->
<!-- to any related information -->

<!ENTITY % co.attlist "INCLUDE">
<![ %co.attlist;]
<!ATTLIST co
%label.attrib;
%linkends.attrib;
%idreq.common.attrib;
%co.role.attrib;
%local.co.attrib;
>
<!--end of co.attlist-->]]>
<!--end of co.module-->]]>

<!ENTITY % coref.module "INCLUDE">
<![ %coref.module;]
<!ENTITY % local.coref.attrib "">
<!-- COREF is a reference to a CO -->
<!ENTITY % coref.role.attrib "%role.attrib;">

<!ENTITY % coref.element "INCLUDE">
<![ %coref.element;]
<!ELEMENT coref %ho; EMPTY>
<!--end of coref.element-->]]>
<!-- bug number/symbol override or initialization -->
<!-- to any related information -->

<!ENTITY % coref.attlist "INCLUDE">
<![ %coref.attlist; ]>
<!ATTLIST coref
%label.attrib;
%linkendreq.attrib;
%common.attrib;
%coref.role.attrib;
%local.coref.attrib;
>
<!--end of coref.attlist-->]]>
<!--end of coref.module-->]]>

<!ENTITY % command.module "INCLUDE">
<![ %command.module; ]>
<!ENTITY % local.command.attrib "">
<!ENTITY % command.role.attrib "%role.attrib;" >

<!ENTITY % command.element "INCLUDE">
<![ %command.element; ]>
<!ELEMENT command %ho; (%cptr.char.mix;)*>
<!--end of command.element-->]]>

<!ENTITY % command.attlist "INCLUDE">
<![ %command.attlist; ]>
<!ATTLIST command
%moreinfo.attrib;
%common.attrib;
%command.role.attrib;
%local.command.attrib;
>
<!--end of command.attlist-->]]>
<!--end of command.module-->]]>

<!ENTITY % computeroutput.module "INCLUDE">
<![ %computeroutput.module; ]>
<!ENTITY % local.computeroutput.attrib "">
<!ENTITY % computeroutput.role.attrib "%role.attrib;" >

<!ENTITY % computeroutput.element "INCLUDE">
<![ %computeroutput.element; ]>
<!ELEMENT computeroutput %ho; (%cptr.char.mix;|co)*>
<!--end of computeroutput.element-->]]>

<!ENTITY % computeroutput.attlist "INCLUDE">
<![ %computeroutput.attlist; ]>
Open Source Used In Cisco Modeling Labs 2.4  9691

<!ENTITY % errortext.attlist "INCLUDE">
<!ENTITY % errortype.module "INCLUDE">
<!ENTITY % local.errortype.attrib "">
<!ENTITY % errortype.role.attrib "%role.attrib;">

<!ENTITY % filename.module "INCLUDE">
<!ENTITY % local.filename.attrib "">
<!ENTITY % filename.role.attrib "%role.attrib;">

<!ENTITY % filename.element "INCLUDE">
<!ENTITY % filename.attlist "INCLUDE">

<!-- Class: Type of filename the element names; no default -->
<!-- Path: Search path (possibly system-specific) in which
file can be found -->
<!ATTLIST guibutton
%moreinfo.attrib;
%common.attrib;
%guibutton.role.attrib;
%local.guibutton.attrib;
>
<!--end of guibutton.attlist-->
<!--end of guibutton.module-->

<!ENTITY % guiicon.module "INCLUDE">
<![%guiicon.module:]
<!ENTITY % local.guiicon.attrib "">
<!ENTITY % guiicon.role.attrib "%role.attrib;">

<!ENTITY % guiicon.element "INCLUDE">
<![%guiicon.element:]
<!ELEMENT guiicon %ho; (%smallcptr.char.mix|accel|superscript|subscript)*>
<!--end of guiicon.element-->
<!--end of guiicon.module-->

<!ENTITY % guilabel.module "INCLUDE">
<![%guilabel.module:]
<!ENTITY % local.guilabel.attrib "">
<!ENTITY % guilabel.role.attrib "%role.attrib;">

<!ENTITY % guilabel.element "INCLUDE">
<![%guilabel.element:]
<!ELEMENT guilabel %ho; (%smallcptr.char.mix|accel|superscript|subscript)*>
<!--end of guilabel.element-->
<!--end of guilabel.module-->

<!ENTITY % guilabel.atlist "INCLUDE">
<![%guilabel.atlist:]
<!ATTLIST guilabel
%moreinfo.attrib;
%common.attrib;
%guilabel.role.attrib;
%local.guilabel.attrib;
>
| pagedown
| [other]#IMPLIED
| otherfunctionCDATA#IMPLIED
| %moreinfo.attrib;
| %common.attrib;
| %keycap.role.attrib;
| %local.keycap.attrib;
| >
| </!

<!ENTITY % keycode.module "INCLUDE">
<![%keycode.module;[
<!ENTITY % local.keycode.attrib "">
<!ENTITY % keycode.role.attrib "%role.attrib;">}

<!ENTITY % keycombo.module "INCLUDE">
<![%keycombo.module;[
<!ENTITY % local.keycombo.attrib "">
<!ENTITY % keycombo.role.attrib "%role.attrib;">}

<!ENTITY % keycombo.element "INCLUDE">
<![%keycombo.element;[
<!ELEMENT keycombo %ho; ((keycap|keycombo|keysym|mousebutton)+)>}

<!ENTITY % keycombo.attlist "INCLUDE">
<![%keycombo.attlist;[
<!ATTLIST keycombo
%common.attrib;
%keycombo.role.attrib;
%local.keycode.attrib;
>}

<!ENTITY % keycombo.attlist "INCLUDE">
<![%keycombo.attlist;[
<!ATTLIST keycombo
%common.attrib;
%keycombo.role.attrib;
%moreinfo.attrib;
%keyaction.attrib;
%keycombo.role.attrib;
<!DOCTYPE attlist SYSTEM "medialabel.dtd">
<!ENTITY % local.medialabel.attrib "">
<!ENTITY % medialabel.role.attrib "%role.attrib;"> 

<!ENTITY % medialabel.element "INCLUDE"> 
<!ELEMENT medialabel %ho; (%smallcptr.char.mix;)*> 
<!--end of medialabel.element-->

<!ENTITY % medialabel.attlist "INCLUDE"> 
<!ATTLIST medialabel 
class (cartridge | cdrom | disk | tape) #IMPLIED 
%common.attrib; 
%medialabel.role.attrib; 
%local.medialabel.attrib; 
>
<!--end of medialabel.attlist-->

<!ENTITY % menuchoice.content.module "INCLUDE"> 
<!ATTLIST menuchoice 
%description.attrib; 
%moreinfo.attrib; 
>

<!ENTITY % menuchoice.module "INCLUDE"> 
<!ELEMENT menuchoice %ho; (shortcut?, (guibutton|guiicon|guilabel 
guimenu|guimenuitem|guisubmenu|interface)+)> 
<!--end of menuchoice.element-->

<!ENTITY % menuchoice.attlist "INCLUDE"> 
<!ATTLIST menuchoice 
%moreinfo.attrib;
Open Source Used In Cisco Modeling Labs 2.4  9710
<!ENTITY % abbrev.attlist "INCLUDE">
<![%abbrev.attlist:]
<!ATTLIST abbrev %common.attrib;
%abbrev.role.attrib;
%local.abbrev.attrib;
> </!--end of abbrev.attlist-->]]>
<![!--end of abbrev.module-->]]>

<!ENTITY % acronym.module "INCLUDE">
<![%acronym.module:]
<!ENTITY % local.acronym.attrib "">
<!ENTITY % acronym.role.attrib "%role.attrib;">

<!ENTITY % acronym.element "INCLUDE">
<![%acronym.element:]
<!ELEMENT acronym %ho; (%word.char.mix;)*
%acronym.exclusion:>
<![!--end of acronym.element-->]]>

<!ENTITY % acronym.attlist "INCLUDE">
<![%acronym.attlist:]
<!ATTLIST acronym %common.attrib;
%acronym.role.attrib;
%local.acronym.attrib;
> </!--end of acronym.attlist-->]]>
<![!--end of acronym.module-->]]>

<!ENTITY % citation.module "INCLUDE">
<![%citation.module:]
<!ENTITY % local.citation.attrib "">
<!ENTITY % citation.role.attrib "%role.attrib;">

<!ENTITY % citation.element "INCLUDE">
<![%citation.element:]
<!ELEMENT citation %ho; (%para.char.mix;)*>
<![!--end of citation.element-->]]>

<!ENTITY % citation.attlist "INCLUDE">
<![%citation.attlist:]
<!ATTLIST citation %common.attrib;
%citation.role.attrib;
%local.citation.attrib;
>
<!ENTITY % manvolnum.element "INCLUDE">
<![%.manvolnum.element;]
<!ELEMENT manvolnum %ho; (%word.char.mix;)*>
<!--end of manvolnum.element-->
]
]

<!ENTITY % manvolnum.attlist "INCLUDE">
<![%.manvolnum.attlist;]
<!ATTLIST manvolnum
%common.attrib;
%namvolnum.role.attrib;
%local.manvolnum.attrib;
>
<!--end of manvolnum.attlist-->
]
]

<!ENTITY % citetitle.module "INCLUDE">
<![%.citetitle.module;]
<!ENTITY % local.citetitle.attrib "">
<!ENTITY % citetitle.role.attrib "%role.attrib;">

<!ENTITY % citetitle.element "INCLUDE">
<![%.citetitle.element;]
<!ELEMENT citetitle %ho; (%para.char.mix;)*>
<!--end of citetitle.element-->
]
]

<!-- Pubwork: Genre of published work cited; no default -->

<!ENTITY % citetitle.attlist "INCLUDE">
<![%.citetitle.attlist;]
<!ATTLIST citetitle
pubwork(article
|book
|chapter
|part
|refentry
|section
|journal
|series
|set
|manuscript
|cdrom
|dvd
|wiki
|gopher
|bbs

|emailmessage
|webpage
<!ENTITY % trademark.module "INCLUDE">
<a[%trademark.module;]
<!ENTITY % local.trademark.attrib "">
<!ENTITY % trademark.role.attrib "%role.attrib;">

<!ENTITY % trademark.element "INCLUDE">
<a[%trademark.element;]
<!ELEMENT trademark %ho; (#PCDATA
 | %link.char.class;
 | %tech.char.class;
 | %base.char.class;
 | %other.char.class;
 | inlinegraphic
   | inlinemediaobject
 | emphasis)*>
</!--end of trademark.element-->]]>

</!-- Class: More precisely identifies the item the element names -->

<!ENTITY % trademark.attlist "INCLUDE">
<a[%trademark.attlist;]
<!ATTLIST trademark
class(service
 | trade
 | registered
 | copyright)trade'
 %common.attrib;
 %trademark.role.attrib;
 %local.trademark.attrib;
 >
</!--end of trademark.attlist-->]]>
</!--end of trademark.module-->]]>

<!ENTITY % wordasword.module "INCLUDE">
<a[%wordasword.module;]
<!ENTITY % local.wordasword.attrib "">
<!ENTITY % wordasword.role.attrib "%role.attrib;">

<!ENTITY % wordasword.element "INCLUDE">
<a[%wordasword.element;]
<!ELEMENT wordasword %ho; (%word.char.mix;)*>
</!--end of wordasword.element-->]]>

</!--ENTITY % wordasword.attlist "INCLUDE">
<a[%wordasword.attlist;]
<!ATTLIST wordasword
%common.attrib;
%wordasword.role.attrib;
%local.wordasword.attrib;
>
<!--end of wordasword.attlist-->]]>
<!--end of wordasword.module-->]]>

<!-- Links and cross-references ........................................... -->

<!ENTITY % link.module "INCLUDE">
<![%link.module;]
<!ENTITY % local.link.attrib "">
<!ENTITY % link.role.attrib "%role.attrib;">

<!ENTITY % link.element "INCLUDE">
<![%link.element;]
<!ELEMENT link %ho; (%para.char.mix;)*
%links.exclusion;>
<!--end of link.element-->]]>

<!-- Endterm: ID of element containing text that is to be fetched from elsewhere in the document to appear as the content of this element -->
<!-- to linked-to object -->
<!-- Type: Freely assignable parameter -->

<!ENTITY % link.attlist "INCLUDE">
<![%link.attlist;]
<!ATTLIST link
edtermIDREF#IMPLIED
xrefstyleCDATA#IMPLIED
typeCDATA#IMPLIED
%linkendreq.attrib;
%common.attrib;
%link.role.attrib;
%local.link.attrib;
>
<!--end of link.attlist-->]]>
<!--end of link.module-->]]>

<!ENTITY % olink.module "INCLUDE">
<![%olink.module;]
<!ENTITY % local.olink.attrib "">
<!ENTITY % olink.role.attrib "%role.attrib;">

<!ENTITY % olink.element "INCLUDE">
<![%olink.element;]
<!ELEMENT olink %ho; (%para.char.mix;)*
%links.exclusion;>
<!--end of olink.element-->

<!-- TargetDocEnt: Name of an entity to be the target of the link -->
<!-- LinkMode: ID of a ModeSpec containing instructions for
operating on the entity named by TargetDocEnt -->
<!-- LocalInfo: Information that may be passed to ModeSpec -->
<!-- Type: Freely assignable parameter -->

<!ENTITY % olink.attlist "INCLUDE">
<![%olink.attlist;[
<!ATTLIST olink
targetdocentENTITY #IMPLIED
linkmodeIDREF#IMPLIED
localinfo CDATA#IMPLIED
typeCDATA#IMPLIED
targetdocCDATA#IMPLIED
targetptrCDATA#IMPLIED
xrefstyleCDATA#IMPLIED
%common.attrib;
%olink.role.attrib;
%local.olink.attrib;
>]
<!--end of olink.attlist-->
<!--end of olink.module-->

<!-- URL: uniform resource locator; the target of the ULink -->
<!-- Type: Freely assignable parameter -->

<!ENTITY % ulink.module "INCLUDE">
<![%ulink.module;[
<!ENTITY % local.ulink.attrib "%">
<!ENTITY % ulink.role.attrib "%role.attrib;">

<!ENTITY % ulink.element "INCLUDE">
<![%ulink.element;[
<!ELEMENT ulink %ho; (%para.char.mix;)*
%links.exclusion;>
<!--end of ulink.element-->

<!-- URL: uniform resource locator; the target of the ULink -->
<!-- Type: Freely assignable parameter -->

<!ENTITY % ulink.attlist "INCLUDE">
<![%ulink.attlist;[
<!ATTLIST ulink
urlCDATA#REQUIRED
typeCDATA#IMPLIED
xrefstyleCDATA#IMPLIED
%common.attrib;
%ulink.role.attrib;
%local.ulink.attrib;
>
<!--end of ulink.attlist-->]]>
<!--end of ulink.module-->]]>

<!ENTITY % footnoteref.module "INCLUDE">
<![%footnoteref.module;]
<!ENTITY % local.footnoteref.attrib ""->
<!ENTITY % footnoteref.role.attrib "%role.attrib;"> 

<!ENTITY % footnoteref.element "INCLUDE">
<![%footnoteref.element;]
<!ELEMENT footnoteref %ho; EMPTY>
<!--end of footnoteref.element-->]]>

<!-- to footnote content supplied elsewhere -->

<!ENTITY % footnoteref.attlist "INCLUDE">
<![%footnoteref.attlist;]
<!ATTLIST footnoteref
%linkendreq.attrib;%label.attrib;
%common.attrib;
%footnoteref.role.attrib;
%local.footnoteref.attrib;
>
<!--end of footnoteref.attlist-->]]>
<!--end of footnoteref.module-->]]>

<!ENTITY % xref.module "INCLUDE">
<![%xref.module;]
<!ENTITY % local.xref.attrib ""->
<!ENTITY % xref.role.attrib "%role.attrib;"> 

<!ENTITY % xref.element "INCLUDE">
<![%xref.element;]
<!ELEMENT xref %ho; EMPTY>
<!--end of xref.element-->]]>

<!-- Endterm: ID of element containing text that is to be fetched from elsewhere in the document to appear as the content of this element -->
<!-- to linked-to object -->
<!-- Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both) -->
<!-- Significance: Whether this IndexTerm is the most pertinent of its series (Preferred) or not (Normal, the default) -->
<!-- Class: Indicates type of IndexTerm; default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges -->
<!-- StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm -->
<!-- Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs -->

<!ENTITY %pagenum.attrib "INCLUDE">
<!ATTLIST pagenum attrib  
scope(all |global |local) #IMPLIED 
significance(preferred |normal) "normal" 
class(singular |startofrange |endofrange) #IMPLIED 
startref IDREF #IMPLIED 
zoneIDREFS #IMPLIED 
typeCDATA #IMPLIED 
%common.attrib; 
%indexterm.role.attrib; 
%local.indexterm.attrib; 
>
No license file was found, but licenses were detected in source scan.

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This module contains the definitions for elements that are isomorphic to the HTML elements. One could argue we should instead have based ourselves on the XHTML Table Module, but the HTML one is more like what browsers are likely to accept today and users are likely to use.

This module has been developed for use with the DocBook V4.4
"union table model" in which elements and attlists common to both models are defined (as the union) in the CALS table module by setting various parameter entities appropriately in this file.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % htmltbl PUBLIC
"-//OASIS//ELEMENTS DocBook XML HTML Tables V4.4//EN"
"htmltblx.mod">
%htmltbl;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!--======================= XHTML Tables =======================================-->

```xml
<!-- Does not contain lang or dir because they are in %common.attribs -->
<!ENTITY % i18n
"xml:lang NMTOKEN #IMPLIED">
```

```xml
<!ENTITY % cellhalign
"cellhalign CDATA #IMPLIED">
```

```xml
<!ENTITY % attrs "%html.coreattrs; %i18n; %events;">
```

```xml
<!ENTITY % cellhalign
"cellhalign CDATA #IMPLIED">
```

```xml
<!ENTITY % i18n
"xml:lang NMTOKEN #IMPLIED">
```

```xml
<!ENTITY % cellhalign
"cellhalign CDATA #IMPLIED">
```

```xml
<!ENTITY % attrs "%html.coreattrs; %i18n; %events;">
```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <title>Open Source Used In Cisco Modeling Labs 2.4</title>
</head>

<body>

<!-- ====================================================== -->
<!--        Set up to read in the CALS model configured to    -->
<!--        merge with the XHTML table model                -->
<!-- ====================================================== -->

<!ENTITY % tables.role.attrib "%role.attrib;">  

<!ENTITY % bodyatt "
floatstyle CDATA #IMPLIED 
rowheader (firstcol|norowheader) #IMPLIED 
%label.attrib; 
">

<!ENTITY % secur "
%common.attrib; 
class CDATA #IMPLIED 
style CDATA #IMPLIED 
title CDATA #IMPLIED 
%i18n; 
%events; 
%tables.role.attrib;">  

</body>

</html>
Found in path(s):
* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.4/htmltblx.mod

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

<!-- --- End of DocBook XML JSON Table Module V4.4 ............................ -->
<!-- ...................................................................... -->
<!-- DocBook XML notations module V4.0 .................................... -->
<!-- File dbnotnx.mod ..................................................... -->

$Id: dbnotnx.mod,v 1.6 2000/05/18 19:40:49 nwalsh Exp $

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<!-- ---

<!-- This module contains the entity declarations for the standard ISO entity sets used by DocBook.

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In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook XML Notations V4.0//EN"
"dbnotnx.mod">
%dbnotn;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!ENTITY % local.notation.class "">
<!ENTITY % notation.class "BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI | EPS | EQN | FAX | GIF | GIF87a | GIF89a | JPG | JPEG | IGES | PCX | PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG | linespecific
%local.notation.class;">
```

```xml
<!NOTATION BMPPUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFFSYSTEM "DITROFF">
<!NOTATION DVISYSTEM "DVI">
<!NOTATION EPSPUBLIC
<!NOTATION EQUSYSTEM "EQN">
<!NOTATION FAXPUBLIC
"-//USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untiled Raster//EN">
<!NOTATION GIFSYSTEM "GIF">
<!NOTATION GIF87a PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 87a//EN">
```

```xml
<!NOTATION GIF89a PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 89a//EN">
<!NOTATION JPSYSTEM "JPG">
<!NOTATION JPSYSTEM "JPG">
<!NOTATION IGESPUBLIC
<!NOTATION PCXPUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION ZSoft PCX bitmap//EN">
<!NOTATION PICSYSTEM "PIC">
```
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-->

---

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This module contains the definitions for elements that are isomorphic to the HTML elements. One could argue we should instead have based ourselves on the XHTML Table Module, but the HTML one is more like what browsers are likely to accept today and users are likely to use.

This module has been developed for use with the DocBook V4.5 "union table model" in which elements and attlists common to both models are defined (as the union) in the CALS table module by setting various parameter entities appropriately in this file.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % htmltbl PUBLIC
"-//OASIS//ELEMENTS DocBook XML HTML Tables V4.5//EN"
"htmltblx.mod">
%htmltbl;
```

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

```xml
<!ENTITY % html.coreattrs
"%common.attrib;
class CDATA #IMPLIED
style CDATA #IMPLIED
title CDATA #IMPLIED"
>
```

Does not contain lang or dir because they are in %common.attribs -->

```xml
<![sgml.features:]
<!ENTITY % i18n ""
]

<!ENTITY % i18n
"xml:lang NM_TOKEN #IMPLIED"
>
```

```xml
<!ENTITY % events
"onclick CDATA #IMPLIED
ondblclick CDATA #IMPLIED
```

---

Open Source Used In Cisco Modeling Labs 2.4 9736
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">

<!ENTITY % tables.role.attrib "%role.attrib;">
summary CDATA #IMPLIED
width CDATA #IMPLIED
border CDATA #IMPLIED
rules CDATA#IMPLIED
cellspacing CDATA #IMPLIED
cellpadding CDATA #IMPLIED
align (left|center|right) #IMPLIED
bgcolor CDATA #IMPLIED

<!ENTITY % tbl.frame.attval "void|above|below|hsides|lhs|rhs|vsides|box|border|
top|bottom|topbot|all|sides|none">

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "%para.char.mix; | %tabentry.mix;"> 

<!-- thead, tfoot, and tbody are defined in both table models, 
so we set up parameter entities to define union models for them
-->

<!ENTITY % tbl.hdft.mdl "(tr+|(colspec*,row+))">
<!ENTITY % tbl.tbody.mdl "(tr+|row+)">
<!ENTITY % tbl.valign.attval "top|middle|bottom|baseline">

<!-- End of DocBook XML HTML Table Module V4.5 ......................... -->
<!-- ................................................................. -->

Found in path(s):
* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.5/htmltblx.mod

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<!-- ................................................................. -->
<!-- DocBook character entities module V4.3 ......................... -->
<!-- File dbcentx.mod ............................................... -->

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$Id: dbcentx.mod,v 1.19 2004/03/31 10:40:22 nwalsh Exp $

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<!-- ...................................................................... -->

<!-- This module contains the entity declarations for the standard ISO entity sets used by DocBook. -->

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

`<!ENTITY % dbcent PUBLIC "-//OASIS//ENTITIES DocBook Character Entities V4.3//EN" "dbcentx.mod"> %dbcent;`

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!-- ...................................................................... -->

<!-- ![%sgml.features;] -->

<!-- ![ENTITY % ISOamsa.module "INCLUDE"> -->

<!-- ![ %ISOamsa.module; ] -->

<!-- ![ENTITY % ISOamsa PUBLIC -->


<!-- ![--->

<!-- ![ENTITY % ISOamsb.module "INCLUDE"> -->

<!-- ![ %ISOamsb.module; ] -->

<!-- ![ENTITY % ISOamsb PUBLIC -->


<!-- ![--->
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This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

```xml
<!ENTITY % dbhier PUBLIC
"-//OASIS//ELEMENTS DocBook Document Hierarchy V4.4//EN"
"dbhierx.mod">
%dbhier;
```
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!--
<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- Entities for module inclusions ........................................ -->
<!-- Entities for element classes ......................................... -->

<!-- Redeclaration placeholder ............................................ -->
<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<!-- Entities for module inclusions ........................................ -->
<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- Entities for element classes ......................................... -->
<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">%

<!ENTITY % local.article.class "">
<!ENTITY % article.class "article %local.article.class;">%

<!ENTITY % local.book.class "">
<!ENTITY % book.class "book %local.book.class;">%

<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">%

<!ENTITY % local.index.class "">
<!ENTITY % index.class "index|setindex %local.index.class;">%

<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "refentry %local.refentry.class;">%

<!ENTITY % local.section.class "">
<!ENTITY % section.class "section %local.section.class;">%

<!ENTITY % local.nav.class "">
<!ENTITY % nav.class "toc|lot|index|glossary|bibliography %local.nav.class;">%

<!-- Redeclaration placeholder ............................................ -->
<!-- For redeclaring entities that are declared after this point while retaining their references to the entities that are declared before this point -->

<![%dbhier.redecl.module:]
<ENTITY % bookinfo.module "INCLUDE">
<![bookinfo.module;[
<ENTITY % bookinfo.attrib "">
<ENTITY % bookinfo.role.attrib "%role.attrib;">

<ENTITY % bookinfo.element "INCLUDE">
<![bookinfo.element;[
<!ELEMENT bookinfo %ho; ((%info.class;)+)
%beginpage.exclusion;>
<!!-- Contents: IDs of the ToC, LoTs, Prefaces, Parts, Chapters, Appendixes, References, Glossary, Bibliography, and indexes comprising the Book, in the order of their appearance -->

<!ENTITY % bookinfo.attlist "INCLUDE">
<![bookinfo.attlist;[
<!ATTLIST bookinfo
contentsIDREFS#IMPLIED
%common.attrib;
%bookinfo.role.attrib;
%local.bookinfo.attrib;
>
<!!-- Dedication, ToC, and LoT ............................................. -->

<!ENTITY % dedication.module "INCLUDE">
<![dedication.module;[
<ENTITY % local.dedication.attrib "">
<ENTITY % dedication.role.attrib "%role.attrib;">

<!ENTITY % dedication.element "INCLUDE">
<![dedication.element;[
<!ELEMENT dedication %ho; ((%sect.title.content;)?, (%legalnotice.mix;)+)
%beginpage.exclusion;>
<!!-- Dedication, ToC, and LoT ............................................. -->

<!ENTITY % dedication.attlist "INCLUDE">
<![dedication.attlist;[

---

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%lot.role.attrib;
%local.lot.attrib;
>
<!--end of lot.module-->

<!--end of lot.content.module-->

<!-- Appendix, Chapter, Part, Preface, Reference, PartIntro ............... -->

<!-- ENTITY % appendix.module "INCLUDE" -->
<![%appendix.module;[
<!-- ENTITY % local.appendix.attrib "" -->
<![ENTITY % appendix.role.attrib "%role.attrib;";>

<!-- ENTITY % appendix.element "INCLUDE" -->
<![%appendix.element;[
<!--ELEMENT appendix %ho; (beginpage?,
  appendixinfo?,
  (%bookcomponent.title.content;),
  (%nav.class;)*,
  tocchap?,
  -->

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<!-- Note that Part was to have its content model reduced in V4.4. This change will not be made after all. -->

<!ENTITY % local.part.attrib "">
<!ENTITY % part.role.attrib "%role.attrib;">

<!ENTITY % part.element "INCLUDE">
<![part.element:]
<!ELEMENT part %ho; (beginpage?,
    partinfo?, (%bookcomponent.title.content;), partintro?,
    (%bookcomponent.content;)+)
%ubiq.inclusion;>
<![--end of part.element-->]]>

<!ENTITY % part.attlist "INCLUDE">
<![part.attlist:]
<!ATTLIST part
    %label.attrib;
    %status.attrib;
    %common.attrib;
    %part.role.attrib;
    %local.part.attrib;
    >
<![--end of part.attlist-->]]>

<!ENTITY % preface.module "INCLUDE">
<![preface.module:]
<!ENTITY % local.preface.attrib "">
<!ENTITY % preface.role.attrib "%role.attrib;">  

<!ENTITY % preface.element "INCLUDE">
<![preface.element:]
<!ELEMENT preface %ho; (beginpage?,
    prefaceinfo?,
    (%bookcomponent.title.content;),
    (%nav.class;)*,
    tocchap?,
    (%bookcomponent.content;),
    (%nav.class;)*)
%ubiq.inclusion;>
<![--end of preface.element-->]]>

<!ENTITY % preface.attlist "INCLUDE">
<![preface.attlist:]
<!ATTLIST preface
<!ENTITY % sect2.module "INCLUDE">
<![%sect2.module;]
<!--end of sect2.module-->
<!--end of sect2.attlist-->

<!--end of sect2.module-->

<!ENTITY % sect3.module "INCLUDE">
<![%sect3.module;]
<!ENTITY % local.sect3.attrib "">
<!ENTITY % sect3.role.attrib "%role.attrib;">

<!ENTITY % sect3.element "INCLUDE">
<![%sect3.element;]
<!ELEMENT sect3 %ho; (sect3info?, (%sect.title.content;), (%nav.class;)*, ((%divcomponent.mix;)+, (%refentry.class;)* | sect4* | simplesect*)) | (%refentry.class;)+ | sect4* | simplesect*), (%nav.class;)*>
<!--end of sect3.element-->

<!-- Renderas: Indicates the format in which the heading should appear -->

<!ENTITY % sect3.attlist "INCLUDE">
<![%sect3.attlist;]
<!ATTLIST sect3 renderas(sect1 | sect2 | sect4 | sect5)#IMPLIED
%label.attrib;
%status.attrib;
%common.attrib;
%sect2.role.attrib;
%local.sect2.attrib;
> 
<!--end of sect3.attlist-->]]>
<!--end of sect3.module-->]]>

<!ENTITY % sect4.module "INCLUDE">
<![%sect4.module;]
<!-- Renderas: Indicates the format in which the heading should appear -->
An Article is a chapter-level, stand-alone document that is often, but need not be, collected into a Book.

Class: Indicates the type of a particular article; all articles have the same structure and general purpose. No default.

ParentBook: ID of the enclosing Book.
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<!-- ...................................................................... -->
<!-- DocBook XML character entities module V4.0 ....................... -->
<!-- File dbcentx.mod .......................................................... -->

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$Id: dbcentx.mod,v 1.6 2000/05/18 19:40:49 nwalsh Exp $

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declaration that uses the public identifier shown below:

<!ENTITY % dbcent PUBLIC
"-/OASIS//ENTITIES DocBook XML Character Entities V4.0//EN"
"dbcentx.mod">
%dbcent;
See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!--
<!ENTITY % ISOamsa.module "INCLUDE">
<![%ISOamsa.module;]
<!ENTITY % ISOamsa PUBLIC
"ent/iso-amsa.ent">
%ISOamsa;
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![%ISOamsb.module;]
<!ENTITY % ISOamsb PUBLIC
"ent/iso-amsb.ent">
%ISOamsb;
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![%ISOamsc.module;]
<!ENTITY % ISOamsc PUBLIC
"ent/iso-amsc.ent">
%ISOamsc;
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![%ISOamsn.module;]
<!ENTITY % ISOamsn PUBLIC
"ent/iso-amsn.ent">
%ISOamsn;
<!--end of ISOamsn.module-->]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![%ISOamso.module;]
<!ENTITY % ISOamso PUBLIC
"ent/iso-amso.ent">
%ISOamso;
<!--end of ISOamso.module-->]]>
<!ENTITY % ISOgrk2.module "INCLUDE">
<![%ISOgrk2.module:]
<!ENTITY % ISOgrk2 PUBLIC
"ISO 8879:1986//ENTITIES Monotoniko Greek//EN//XML"
"ent/iso-grk2.ent">
%ISOgrk2;
<!--end of ISOgrk2.module-->]]>

<!ENTITY % ISOgrk3.module "INCLUDE">
<![%ISOgrk3.module:]
<!ENTITY % ISOgrk3 PUBLIC
"ISO 8879:1986//ENTITIES Greek Symbols//EN//XML"
"ent/iso-grk3.ent">
%ISOgrk3;
<!--end of ISOgrk3.module-->]]>

<!ENTITY % ISOgrk4.module "INCLUDE">
<![%ISOgrk4.module:]
<!ENTITY % ISOgrk4 PUBLIC
"ISO 8879:1986//ENTITIES Alternative Greek Symbols//EN//XML"
"ent/iso-grk4.ent">
%ISOgrk4;
<!--end of ISOgrk4.module-->]]>

<!ENTITY % ISOlat1.module "INCLUDE">
<![%ISOlat1.module:]
<!ENTITY % ISOlat1 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 1//EN//XML"
"ent/iso-lat1.ent">
%ISOlat1;
<!--end of ISOlat1.module-->]]>

<!ENTITY % ISOlat2.module "INCLUDE">
<![%ISOlat2.module:]
<!ENTITY % ISOlat2 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 2//EN//XML"
"ent/iso-lat2.ent">
%ISOlat2;
<!--end of ISOlat2.module-->]]>

<!ENTITY % ISOnum.module "INCLUDE">
<![%ISOnum.module:]
<!ENTITY % ISOnum PUBLIC
"ISO 8879:1986//ENTITIES Numeric and Special Graphic//EN//XML"
"ent/iso-num.ent">
%ISOnum;
<!--end of ISOnum.module-->]]>
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DOD/DTD Table Model 951010//EN

$Id: calstblx.dtd,v 1.27 2005/01/27 13:52:00 nwalsh Exp $

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* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.4/calstblx.dtd
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Found in path(s):
* /opt/cola/permits/1256167273_1642653077.82/0/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.3/docbookx.dtd

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<![-- .......................................................... -->]
<![-- DocBook notations module V4.5 ................................ -->]
<![-- File dbnotnx.mod ........................................ -->]


$Id: dbnotnx.mod 6340 2006-10-03 13:23:24Z nwalsh $

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<!-- ...................................................................... -->
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In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC "-//OASIS//ENTITIES DocBook Notations V4.5//EN" "dbnotnx.mod">

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class "BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI |
| EPS | EQN | FAX | GIF | GIF87a | GIF89a |
| JPG | JPEG | IGES | PCX |
| PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG |
| SVG | PDF | SWF |
| linespecific

%local.notation.class;">

<!NOTATION BMPPUBLIC "+/ISBN 0-7923-94.2-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHARPUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARYPUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEARPUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFFSYSTEM "DITROFF">
<!NOTATION DVISYSTEM "DVI"
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<!--  

<!ENTITY % yesorno.attvals "CDATA">

<!-- Entities for module inclusions  

<!ENTITY % dbpool.redecl.module "IGNORE">

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.

<!--  

<!ENTITY % dbpool PUBLIC  
"-//OASIS//ELEMENTS DocBook XML Information Pool V4.1.2//EN"  
"dbpoolx.mod">

%dbpool;
<!-- Entities for element classes and mixtures ......................... -->

<!-- "Ubiquitous" classes: ndxterm.class and beginpage -->

<!ENTITY % local.ndxterm.class "">  
<!ENTITY % ndxterm.class  
"indexterm %local.ndxterm.class;">  

<!-- Object-level classes ............................................... -->

<!ENTITY % local.list.class "">  
<!ENTITY % list.class  
"calloutlist|glosslist|itemizedlist|orderedlist|segmentedlist  
simplelist|variablelist %local.list.class;">  

<!ENTITY % local.admon.class "">  
<!ENTITY % admon.class  
"caution|important|note|tip|warning %local.admon.class;">  

<!ENTITY % local.linespecific.class "">  
<!ENTITY % linespecific.class  
"literallayout|programlisting|programlistingco|screen  
screenco|screenshot %local.linespecific.class;">  

<!ENTITY % local.method.synop.class "">  
<!ENTITY % method.synop.class  
"constructorsynopsis  
|destructorsynopsis  
|methodsynopsis %local.method.synop.class;">  

<!ENTITY % local.synop.class "">  
<!ENTITY % synop.class  
"synopsis|cmdsynopsis|funcsynopsis  
|classsynopsis|fieldsynopsis  
|%method.synop.class; %local.synop.class;">  

<!ENTITY % local.para.class "">  
<!ENTITY % para.class  
"formalpara|para|simpara %local.para.class;">  

<!ENTITY % local.informal.class "">  
<!ENTITY % informal.class  
"address|blockquote  
|graphic|graphicco|mediaobject|mediaobjectco  
|informalequation  
|informalexample  
|informalfigure
<!-- The DocBook TC may produce an official EBNF module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!-- The DocBook TC may produce an official EBNF module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
"action|application
 |classname|methodname|interfacename|exceptionname
 |ooclass|oointerface|ooexception
 |command|computeroutput
 |database|email|envar|errorcode|errorname|errortype|filename
 |function|guibutton|guiicon|guiLabel|guimenu|guimenuitem
 |guimenu|hardware|interface|keycap
 |keycode|keycombo|keysym|literal|constant|markup|medialabel
 |menuchoice|mousebutton|option|optional|parameter
 |prompt|property|replaceable|returnvalue|sgmltag|structfield
 |structname|symbol|systemitem|token|type|userinput|varname
 %ebnf.inline.hook;
 %local.tech.char.class;"
Component mixture       X    X    X    X    X    X    X    X    X    X
Sidebar mixture         X    X    X    X    X    X    X    a    X
Footnote mixture        X    X    X    X    X
Example mixture         X    X    X    X    X
Highlights mixture      X    X    X
Paragraph mixture       X         X    X    X    X    X    X    X    X    X
Admonition mixture      X    X    X    X    X    X    X    b    c
Figure mixture          X    X    X
Table entry mixture     X    X    X         X    d
Glossary def mixture    X    X    X    X    X    X    e
Legal notice mixture    X    X    X    X    X    f

a. Just Procedure; not Sidebar itself or MsgSet.
b. No MsgSet.
c. No Highlights.
d. Just Graphic; no other informal objects.
e. No Anchor, BridgeHead, or Highlights.
f. Just BlockQuote; no other informal objects.

<!ENTITY % local.component.mix "">
<!ENTITY % component.mix "%list.class; |%admon.class;|%linespecific.class;|%synop.class;|%para.class;|%informal.class;|%formal.class;|%compound.class;|%genobj.class;|%descobj.class;|%ndxterm.class; |beginpage %local.component.mix;">

<!ENTITY % local.sidebar.mix "">
<!ENTITY % sidebar.mix "%list.class; |%admon.class;|%linespecific.class;|%synop.class;|%para.class;|%informal.class;|%formal.class;|procedure|%genobj.class;|%ndxterm.class; |beginpage %local.sidebar.mix;">

<!ENTITY % local.qandaset.mix "">
<!ENTITY % qandaset.mix "%list.class; |%admon.class;|%linespecific.class;|%synop.class;|%para.class;|%informal.class;|%formal.class;|procedure|%genobj.class;|%ndxterm.class; »
<!-- Character-level mixtures ............................................. -->

<!--

#PCD xref word link cptr base dnfo othr inob (synop)
para.char.mix    X    X    X    X    X    X    X    X    X
title.char.mix   X    X    X    X    X    X    X    X    X
ndxterm.char.mix X    X    X    X    X    X    X    X    a
 cptr.char.mix    X    X    X    X    a
 smallcptr.char.mix X    X    X    X    a
 word.char.mix    X    c    X    X    a
docinfo.char.mix X    d    X    b    X    a

a. Just InlineGraphic; no InlineEquation.
b. Just Replaceable; no other computer terms.
c. Just Emphasis and Trademark; no other word elements.
d. Just Acronym, Emphasis, and Trademark; no other word elements.
-->

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forminlines.hook">

<!ENTITY % local.para.char.mix "">
<!ENTITY % para.char.mix "#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;|%inlineobj.char.class;
|%synop.class;
|%ndxterm.class;   |beginpage
          %forminlines.hook;
%local.para.char.mix;">n

<!ENTITY % local.title.char.mix "">
<!ENTITY % title.char.mix "#PCDATA
|%xref.char.class;|%gen.char.class;
|%link.char.class;|%tech.char.class;
|%base.char.class;|%docinfo.char.class;
|%other.char.class;|%inlineobj.char.class;
|%ndxterm.class;
%local.title.char.mix;">n

<!ENTITY % local.ndxterm.char.mix "">
<!ENTITY % ndxterm.char.mix "#PCDATA
|
<!ENTITY % formalobject.title.content "title, titleabbrev?">

<!-- ................................................................. -->
<!-- Entities for attributes and attribute components ............... -->

<!-- Effectivity attributes .......................................... -->

<!-- Arch: Computer or chip architecture to which element applies; no default -->

<!ENTITY % arch.attrib
"archCDATA#IMPLIED">

<!-- Condition: General-purpose effectivity attribute -->

<!ENTITY % condition.attrib
"conditionCDATA#IMPLIED">

<!-- Conformance: Standards conformance characteristics -->

<!ENTITY % conformance.attrib
"conformanceNMTOKENS#IMPLIED">

<!-- OS: Operating system to which element applies; no default -->

<!ENTITY % os.attrib
"osCDATA#IMPLIED">

<!-- Revision: Editorial revision to which element belongs; no default -->

<!ENTITY % revision.attrib
"revisionCDATA#IMPLIED">

<!-- Security: Security classification; no default -->

<!ENTITY % security.attrib
"securityCDATA#IMPLIED">

<!-- UserLevel: Level of user experience to which element applies; no default -->

<!ENTITY % userlevel.attrib
"userlevelCDATA#IMPLIED"
<!-- Vendor: Computer vendor to which element applies; no default -->

<!ENTITY % vendor.attrib
"vendorCDATA#IMPLIED">

<!ENTITY % local.effectivity.attrib "">
<!ENTITY % effectivity.attrib
"%arch.attrib;
  %condition.attrib;
  %conformance.attrib;
  %os.attrib;
  %revision.attrib;
  %security.attrib;
  %userlevel.attrib;
  %vendor.attrib;
  %local.effectivity.attrib;" >

<!-- Common attributes .................................................... -->

<!-- Id: Unique identifier of element; no default -->

<!ENTITY % id.attrib
"idID#IMPLIED">

<!-- Id: Unique identifier of element; a value must be supplied; no default -->

<!ENTITY % idreq.attrib
"idID#REQUIRED">

<!-- Lang: Indicator of language in which element is written, for translation, character set management, etc.; no default -->

<!ENTITY % lang.attrib
"langCDATA#IMPLIED">

<!-- Remap: Previous role of element before conversion; no default -->

<!ENTITY % remap.attrib
"remapCDATA#IMPLIED">

<!-- Role: New role of element in local environment; no default -->
<!ENTITY % local.graphics.attrib "">

<!ENTITY % local.keyaction.attrib "">

<!- EntityRef: Name of an external entity containing the content of the graphic -->
<!- FileRef: Filename, qualified by a pathname if desired, designating the file containing the content of the graphic -->
<!- Format: Notation of the element content, if any -->
<!- SrcCredit: Information about the source of the Graphic -->
<!- Width: Same as CALS reprowid (desired width) -->
<!- Depth: Same as CALS reprodep (desired depth) -->
<!- Align: Same as CALS hplace with 'none' removed; #IMPLIED means application-specific -->
<!- Scale: Conflation of CALS hscale and vscale -->
<!- Scalefit: Same as CALS scalefit -->

<!ENTITY % graphics.attrib "-entityref ENTITY #IMPLIED fileref CDATA #IMPLIED format(%notation.class;) #IMPLIED srccredit CDATA #IMPLIED width CDATA #IMPLIED depth CDATA #IMPLIED align (left | right | center) #IMPLIED scale CDATA #IMPLIED scalefit %yesorno.attvals; #IMPLIED %local.graphics.attrib;">

<!ENTITY % local.keyaction.attrib "">

<!- Action: Key combination type; default is unspecified if one child element, Simul if there is more than one; if value is Other, the OtherAction attribute must have a nonempty value -->
<!- OtherAction: User-defined key combination type -->

<!ENTITY % keyaction.attrib " action (click | double-click | press | seq"
<!-- The bibliographic elements are typically used in the document hierarchy. They do not appear in content models of information pool elements. See also the document information elements, below. -->

<!ENTITY % local.person.ident.mix "">
<!ENTITY % person.ident.mix
"honorific|firstname|surname|lineage|othername|affiliation
|authorblurb|contrib %local.person.ident.mix;">

<!ENTITY % local.bibliocomponent.mix "">
<!ENTITY % bibliocomponent.mix
"abbrev|abstract|address|artpagenums|author
|authorgroup|authorinitials|bibliomisc|biblioset
|collab|congroup|contractnum|contractsporor
|copyright|corauthor|corpname|date|edition
|editor|invpartnumber|isbn|issn|issuenum|orgname
|othercredit|pagenums|printhistory|productname
|productnumber|pubdate|publisher|publishernname
|pubsnumber|releaseinfo|revhistory|seriesvolnums
|subtitle|title|titleabbrev|volumenum|citetitle
|%person.ident.mix;
|%ndxterm.class;
%local.bibliocomponent.mix;">

<!ENTITY % biblioentry.module "INCLUDE">
<![biblioentry.module;[
  <![%biblioentry.attrib "">
  <![%biblioentry.role.attrib "%role.attrib;">

<!ENTITY % biblioentry.element "INCLUDE">
<![biblioentry.element;[
  <![ELEMENT biblioentry ((articleinfo | (%bibliocomponent.mix;))+)>
  <![!--end of biblioentry.element-->]]>

<!ENTITY % biblioentry.attlist "INCLUDE">
<![biblioentry.attlist;[
  <![ATTLIST biblioentry
  %common.attrib;
  %biblioentry.role.attrib;
  %local.biblioentry.attrib;
  >
  <![!--end of biblioentry.attlist-->]]>
  <![!--end of biblioentry.module-->]]>

<!ENTITY % bibliomixed.module "INCLUDE">
<![bibliomixed.module;[
  <![ENTITY % local.bibliomixed.attrib "">
Open Source Used In Cisco Modeling Labs 2.4 9832

<!-- Procedure ......................... -->
Performance: whether entire set of substeps must be performed -->
not #REQUIRED! -->

Sidebar ......................... -->

Sidebar ......................... -->
Open Source Used In Cisco Modeling Labs 2.4

---

<!ENTITY % abstract.module "INCLUDE">
<![%abstract.module;]
<!ENTITY % abstract.role.attrib "">
<!ENTITY % local.bridgehead.attrib "">
<!ENTITY % bridgehead.role.attrib "%role.attrib;">  
<!ENTITY % bridgehead.element "INCLUDE">  
<!%bridgehead.element;[  
<!ELEMENT bridgehead (%title.char.mix;)*>  
<!!--end of bridgehead.element-->]]>  
<!-- Renderas: Indicates the format in which the BridgeHead should appear -->
Open Source Used In Cisco Modeling Labs 2.4  9839
<!ENTITY % glosslist.attlist "INCLUDE">
<![%glosslist.attlist;]
<!ATTLIST glosslist %common.attrib;
%glosslist.role.attrib;
%local.glosslist.attrib;
>
<!end of glosslist.attlist--->]]>
<![end of glosslist.module--->]]>

<!ENTITY % glossentry.content.module "INCLUDE">
<![%glossentry.content.module;]
<!ENTITY % glossentry.module "INCLUDE">
<![%glossentry.module;]
<!ENTITY % local.glossentry.attrib "">
<!ENTITY % glossentry.role.attrib "%role.attrib;">
<!ENTITY % glossentry.element "INCLUDE">
<![%glossentry.element;]
<!ELEMENT glossentry (glossterm, acronym?, abbrev?, (%ndxterm.class;)*,
revhistory?, (glosssee|glossdef+))>
<![end of glossentry.element--->]]>

<!-- SortAs: String by which the GlossEntry is to be sorted (alphabetized) in lieu of its proper content -->

<!ENTITY % glossentry.attlist "INCLUDE">
<![%glossentry.attlist;]
<!ATTLIST glossentry sortasCDATA#IMPLIED
%common.attrib;
%glossentry.role.attrib;
%local.glossentry.attrib;
>
<![end of glossentry.attlist--->]]>
<![end of glossentry.module--->]]>

<!-- GlossTerm (defined in the Inlines section, below)-->
<!ENTITY % glossdef.module "INCLUDE">
<![%glossdef.module;]
<!ENTITY % local.glossdef.attrib "">
<!ENTITY % glossdef.role.attrib "%role.attrib;">
<!ENTITY % glossdef.element "INCLUDE">
<![%glossdef.element;]
<!ELEMENT glossdef ((%glossdef.mix;)+, glossseealso*)>
<!ENTITY % orderedlist.module "INCLUDE">
<![<!--%orderedlist.module;]>
<!ENTITY % local.orderedlist.attrib "">
<!ENTITY % orderedlist.role.attrib "%role.attrib;"> 

<!ENTITY % orderedlist.element "INCLUDE">
<![<!--%orderedlist.element;]>
<!ELEMENT orderedlist ((%formalobject.title.content;)?, listitem+)>
<!--end of orderedlist.element-->]]>

<!-- Numeration: Style of ListItem numbered; default is expected to be Arabic -->
<!-- InheritNum: Specifies for a nested list that the numbering of ListItems should include the number of the item within which they are nested (e.g., 1a and 1b within 1, rather than a and b) -->
<!-- Continuation: Where list numbering begins afresh (Restarts, the default) or continues that of the immediately preceding list (Continues) -->
<!-- Spacing: Whether the vertical space in the list should be compressed -->

<!ENTITY % orderedlist.attlist "INCLUDE">
<![<!--%orderedlist.attlist;]>
<!ATTLIST orderedlist 
 numeration(arabic |upperalpha |loweralpha |upperroman |lowerroman)#IMPLIED 
 inheritnum(inherit |ignore)"ignore" 
 continuation(continues |restarts)"restarts" 
 spacing(normal |compact)#IMPLIED 
 %common.attrib; 
 %orderedlist.role.attrib; 
 %local.orderedlist.attrib; 
 >
<!--end of orderedlist.attlist-->]]>

<!ENTITY % listitem.module "INCLUDE">
<![<!--%listitem.module;]>
<!ENTITY % local.listitem.attrib ""
<!-- SimpleList ....................... -->

<!ENTITY % simplelist.content.module "INCLUDE">
<![%simplelist.content.module;]
<!ENTITY % simplelist.module "INCLUDE">
<![%simplelist.module;]
<!ENTITY % local.simplelist.attrib "">
<!ENTITY % simplelist.role.attrib "%role.attrib;">

<!ENTITY % simplelist.element "INCLUDE">
<![%simplelist.element;]
<!ELEMENT simplelist (member+)>
</simplelist>
</ENTITY>

<!-- Columns: The number of columns the array should contain -->
<!-- Type: How the Members of the SimpleList should be formatted: Inline (members separated with commas etc. inline), Vert (top to bottom in n Columns), or Horiz (in the direction of text flow) in n Columns. If Column is 1 or implied, Type=Vert and Type=Horiz give the same results. -->

<!ENTITY % simplelist.attlist "INCLUDE">
<![%simplelist.attlist;]
<!ATTLIST simplelist columns CDATA #IMPLIED
  type (inline | vert | horiz) "vert"
%common.attrib;
%simplelist.role.attrib;
%local.simplelist.attrib;
>
<![end of simplelist.attlist-->]]>

<!-- SimpleList ....................... -->
<!-- end of simplelist.module--]]>

<!ENTITY % member.module "INCLUDE">
<![ %member.module; ]>
<!ENTITY % local.member.attrib "">
<!ENTITY % member.role.attrib "%role.attrib;">

<!ENTITY % member.element "INCLUDE">
<![ %member.element; ]>
<!ELEMENT member (%para.char.mix;)*>
<!--end of member.element-->

<!ENTITY % member.attlist "INCLUDE">
<![ %member.attlist; ]>
<!ATTLIST member
%common.attrib;
%member.role.attrib;
%local.member.attrib;
> 
<![ %member.attlist; ]>
<![ %member.module "INCLUDE" ]>
<![ %member.role.attrib "%role.attrib;" ]>

<!-- VariableList ..................... -->

<!ENTITY % variablelist.content.module "INCLUDE">
<![ %variablelist.content.module; ]>
<!ENTITY % variablelist.module "INCLUDE">
<![ %variablelist.module; ]>
<!ENTITY % local.variablelist.attrib "">
<!ENTITY % variablelist.role.attrib "%role.attrib;">

<!ENTITY % variablelist.element "INCLUDE">
<![ %variablelist.element; ]>
<!ELEMENT variablelist ((%formalobject.title.content;)?, varlistentry+)>
<!--end of variablelist.element-->

<!ENTITY % variablelist.attlist "INCLUDE">
<![ %variablelist.attlist; ]>
<!ATTLIST variablelist
termlength CDATA #IMPLIED
%common.attrib;
%variablelist.role.attrib;

<!-- TermLength: Length beyond which the presentation engine
may consider the Term too long and select an alternate
presentation of the Term and, or, its associated ListItem. -->

<!ENTITY % variablelist.attlist "INCLUDE">
<![ %variablelist.attlist; ]>
<!ATTLIST variablelist
termlength CDATA #IMPLIED
%common.attrib;
%variablelist.role.attrib;
<!ENTITY % example.module "INCLUDE">
<![%example.module;]
<!ENTITY % local.example.attrib "">
<!ENTITY % example.role.attrib "%role.attrib;">

<!ENTITY % example.element "INCLUDE">
<![%example.element;]
<!ELEMENT example (%formalobject.title.content;), (%example.mix;)+>
<!--end of example.element-->
</![%example.module;>]

<!ENTITY % example.attlist "INCLUDE">
<![%example.attlist;]
<!ATTLIST example
%label.attrib;
%width.attrib;
%common.attrib;
%example.role.attrib;
%local.example.attrib;
>
<!--end of example.attlist-->
</![%example.module;>]

<!ENTITY % informalexample.module "INCLUDE">
<![%informalexample.module;]
<!ENTITY % local.informalexample.attrib "">
<!ENTITY % informalexample.role.attrib "%role.attrib;">

<!ENTITY % informalexample.element "INCLUDE">
<![%informalexample.element;]
<!ELEMENT informalexample (%example.mix;)+>
<!--end of informalexample.element-->
</![%informalexample.module;>]

<!ENTITY % informalexample.attlist "INCLUDE">
<![%informalexample.attlist;]
<!ATTLIST informalexample
%width.attrib;
%common.attrib;
%informalexample.role.attrib;
%local.informalexample.attrib;
>
<!--end of informalexample.attlist-->
</![%informalexample.module;>]

Open Source Used In Cisco Modeling Labs 2.4 9853
Units: global unit of measure in which coordinates in this spec are expressed:

- CALSPair "x1.y1 x2.y2": lower-left and upper-right coordinates in a rectangle describing repro area in which graphic is placed, where X and Y dimensions are each some number 0..10000 (taken from CALS graphic attributes)

- LineColumn "line column": line number and column number at which to start callout text in "linespecific" content

- LineRange "startline endline": whole lines from startline to endline in "linespecific" content
- LineColumnPair "line1 col1 line2 col2": starting and ending points of area in "line-specific" content that starts at first position and ends at second position (including the beginnings of any intervening lines)

- Other: directive to look at value of OtherUnits attribute to get implementation-specific keyword

The default is implementation-specific; usually dependent on the parent element (GraphicCO gets CALSPair, ProgramListingCO and ScreenCO get LineColumn) -->
<!--) OtherUnits: User-defined units -->

```xml
<!ENTITY % areaspec.attlist "INCLUDE">
<![%areaspec.attlist;]
<!ATTLIST areaspec
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
%common.attrib;
%areaspec.role.attrib;
%local.areaspec.attrib;
> 
<!--end of areaspec.attlist-->]]>
<!--end of areaspec.module-->]]>

<!ENTITY % area.module "INCLUDE">
<![%area.module;]
<!ENTITY % local.area.attrib "">
<!ENTITY % area.role.attrib "%role.attrib;">

<!ENTITY % area.element "INCLUDE">
<![%area.element;]
<!ELEMENT area EMPTY>
<!--end of area.element-->]]>

<!-- bug number/symbol override or initialization -->
<!-- to any related information -->
<!-- Units: unit of measure in which coordinates in this area are expressed; inherits from AreaSet and AreaSpec -->
<!-- OtherUnits: User-defined units -->
<!ENTITY % area.attlist "INCLUDE">
<![%area.attlist:[
<!ATTLIST area
%label.attrib;
%linkends.attrib;
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%area.role.attrib;
%local.area.attrib;
>]
<!--end of area.attlist-->]]>
<!--end of area.module-->]]>

<!ENTITY % areaset.module "INCLUDE">
<![%areaset.module:[
<!ENTITY % local.areaset.attrib "">
<!ENTITY % areaset.role.attrib "%role.attrib;">

<!ENTITY % areaset.attlist "INCLUDE">
<![%areaset.attlist:[
<!ATTLIST areaset
%label.attrib;
units(calspair
|linecolumn
|linerange
|linecolumnpair
|other)#IMPLIED
otherunitsNMTOKEN#IMPLIED
coordsCDATA#REQUIRED
%idreq.common.attrib;
%areaset.role.attrib;
%local.areaset.attrib;
>]
<!--end of areaset.attlist-->]]>

<!-- bug number/symbol override or initialization -->
<!-- Units: unit of measure in which coordinates in this
area are expressed; inherits from AreaSpec -->

<!-- Open Source Used In Cisco Modeling Labs 2.4 9856 -->
AreaSpec (defined above in Examples)-->
<!-- CalloutList (defined above in Lists)-->
<!--end of graphic.module-->

<!-- Graphical data can be the content of Graphic, or you can reference an external file either as an entity (Entitref) or a filename (Fileref).-->

<!ENTITY % graphic.module "INCLUDE">
<![%graphic.module;[!
<!ENTITY % local.graphic attrib "">
<!ENTITY % graphic.role attrib "%role.attrib;">
Open Source Used In Cisco Modeling Labs 2.4  9865
This PE provides a mechanism for replacing equation content, perhaps adding a new or different model (e.g., MathML).
Frame, Colsep, and Rowsep must be repeated because they are not in entities in the table module.

Includes TabStyle, ToCentry, ShortEntry, Orient, PgWide.

Includes common attributes.

Synopsis
<!ATTLIST void
%common.attrib;
%void.role.attrib;
%local.void.attrib;
>
<!--end of void.attlist-->]]>
<!--end of void.module-->]]>

<!ENTITY % varargs.module "INCLUDE">
<![%varargs.module;]
<!ENTITY % local.varargs.attrib "">
<!ENTITY % varargs.role.attrib "%role.attrib;"> 

<!ENTITY % varargs.element "INCLUDE">
<![%varargs.element;]
<!ELEMENT varargs EMPTY>
<!--end of varargs.element-->]]>

<!ENTITY % varargs.attlist "INCLUDE">
<![%varargs.attlist;]
<!ATTLIST varargs
%common.attrib;
%varargs.role.attrib;
%local.varargs.attrib;
>
<!--end of varargs.attlist-->]]>
<!--end of varargs.module-->]]>

<!-- Processing assumes that only one Parameter will appear in a ParamDef, and that FuncParams will be used at most once, for providing information on the "inner parameters" for parameters that are pointers to functions. -->

<!ENTITY % paramdef.module "INCLUDE">
<![%paramdef.module;]
<!ENTITY % local.paramdef.attrib "">
<!ENTITY % paramdef.role.attrib "%role.attrib;"> 

<!ENTITY % paramdef.element "INCLUDE">
<![%paramdef.element;]
<!ELEMENT paramdef (#PCDATA
| replaceable
| parameter
| funcparams)*>
<!--end of paramdef.element-->]]>

<!--end of paramdef.attlist-->]]>
<!--end of paramdef.module-->]]>
<!ENTITY % classsynopsis.attlist "INCLUDE">
<!ATTLIST classsynopsis %common.attrib; %classsynopsis.role.attrib; %local.classsynopsis.attrib; language CDATA #IMPLIED class(class|interface)"class" >
<!ENTITY % classsynopsisinfo.attlist "INCLUDE">
<!ATTLIST classsynopsisinfo %linespecific.attrib; %common.attrib; %classsynopsisinfo.role.attrib; %local.classsynopsisinfo.attrib; >
<!ENTITY % ooclass.attlist "INCLUDE">
<!ATTLIST ooclass %common.attrib; %ooclass.role.attrib; >
<!ENTITY % ooclass.module "INCLUDE">
<!ELEMENT ooclass (modifier*, classname)>
<!ATTLIST ooclass
%common.attrib;
%ooclass.role.attrib;
%local.ooclass.attrib;
>
<!--end of ooclass.atlist-->
<!--end of ooclass.module-->

<!ENTITY % oointerface.module "INCLUDE">
<![%oointerface.module;[
<!ENTITY % local.oointerface.attrib "">
<!ENTITY % oointerface.role.attrib "%role.attrib;">

<!ENTITY % oointerface.element "INCLUDE">
<![%oointerface.element;[
<!ELEMENT oointerface (modifier*, interfacename)>  
<!--end of oointerface.element-->
]
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<!ENTITY % exceptionname.attlist "INCLUDE">
<![%exceptionname.attlist;]
<!ATTLIST exceptionname
%common.attrib;
%exceptionname.role.attrib;
%local.exceptionname.attrib;
>
<![!--end of exceptionname.module-->]]>
<!ENTITY % fieldsynopsis.module "INCLUDE">
<![%fieldsynopsis.module;]
<!ENTITY % local.fieldsynopsis.attrib "">
<!ENTITY % fieldsynopsis.role.attrib "%role.attrib;"> 

<!ENTITY % fieldsynopsis.element "INCLUDE">
<![%fieldsynopsis.element;]
<!ELEMENT fieldsynopsis (modifier*, type?, varname, initializer?)>
<![!--end of fieldsynopsis.element-->]]>
<!ENTITY % fieldsynopsis.attlist "INCLUDE">
<![%fieldsynopsis.attlist;]
<!ATTLIST fieldsynopsis
%common.attrib;
%fieldsynopsis.role.attrib;
%local.fieldsynopsis.attrib;
>
<![!--end of fieldsynopsis.module-->]]>
<!ENTITY % initializer.module "INCLUDE">
<![%initializer.module;]
<!ENTITY % local.initializer.attrib "">
<!ENTITY % initializer.role.attrib "%role.attrib;"> 

<!ENTITY % initializer.element "INCLUDE">
<![%initializer.element;]
<!ELEMENT initializer (%smallcptr.char.mix;)*>
<![!--end of initializer.element-->]]>
<!ENTITY % initializer.attlist "INCLUDE">
<![%initializer.attlist;]
<!ATTLIST initializer
%common.attrib;
%initializer.role.attrib;
%local.initializer.attrib;
Document information entities and elements

The document information elements include some elements that are currently used only in the document hierarchy module. They are defined here so that they will be available for use in customized document hierarchies.

Acknowledgments
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Open Source Used In Cisco Modeling Labs 2.4  9895
Open Source Used In Cisco Modeling Labs 2.4 9899
Open Source Used In Cisco Modeling Labs 2.4 9907
<!-- Class: Type of database the element names; no default -->

<!ENTITY % database.attlist "INCLUDE">
<![%database.attlist;]
<!ATTLIST database
 class (name
 | table
 | field
 | key1
 | key2
 | record)#IMPLIED
 %moreinfo.attrib;
 %common.attrib;
 %database.role.attrib;
 %local.database.attrib;
>
<!--end of database.attlist-->]
<!--end of database.module-->]]>

<!ENTITY % email.module "INCLUDE">
<![%email.module;]
<!ENTITY % local.email.attrib "">
<!ENTITY % email.role.attrib "%role.attrib;"> 

<!ENTITY % email.element "INCLUDE">
<![%email.element;]
<!ELEMENT email (%docinfo.char.mix;)*>
<!--end of email.element-->]]>

<!ENTITY % email.attlist "INCLUDE">
<![%email.attlist;]
<!ATTLIST email
 %common.attrib;
 %email.role.attrib;
 %local.email.attrib;
>
<!--end of email.attlist-->]]>
<!--end of email.module-->]]>

<!ENTITY % envar.module "INCLUDE">
<![%envar.module;]
<!ENTITY % local.envar.attrib "">
<!ENTITY % envar.role.attrib "%role.attrib;"> 

<!ENTITY % envar.element "INCLUDE">
<![%envar.element;]
<!ELEMENT envar (%smallcptr.char.mix;)*>
%errorname.role.attrib;
%local.errorname.attrib;
>
<!--end of errorname.attlist-->
</%errorname.role.attrib;>
<!--end of errorname.module-->

<!ENTITY % errortype.module "INCLUDE">
<![%errortype.module;]
<!ENTITY % local.errortype.attrib "">
<!ENTITY % errortype.role.attrib "%role.attrib;">

<!ENTITY % errortype.element "INCLUDE">
<![%errortype.element;]
<!ELEMENT errortype (%smallcptr.char.mix;)*
<!--end of errortype.element-->
]

<!ENTITY % errortype.attlist "INCLUDE">
<![%errortype.attlist;]
<!ATTLIST errortype
%common.attrib;
%errortype.role.attrib;
%local.errortype.attrib;
>
<!--end of errortype.attlist-->
</%errortype.role.attrib;>
<!--end of errortype.module-->

<!ENTITY % filename.module "INCLUDE">
<![%filename.module;]
<!ENTITY % local.filename.attrib "">
<!ENTITY % filename.role.attrib "%role.attrib;">

<!ENTITY % filename.element "INCLUDE">
<![%filename.element;]
<!ELEMENT filename (%smallcptr.char.mix;)*
<!--end of filename.element-->
]

<!-- Class: Type of filename the element names; no default -->
<!-- Path: Search path (possibly system-specific) in which
file can be found -->

<!ENTITY % filename.attlist "INCLUDE">
<![%filename.attlist;]
<!ATTLIST filename
class(headerfile
devicefile
libraryfile
directory
<!-- Class: Type of medium named by the element; no default -->

<!ENTITY % medialabel.module "INCLUDE">  
<![%medialabel.module;[
  <!ENTITY % local.medialabel.attrib "";>  
  <!ENTITY % medialabel.role.attrib "%role.attrib;";>  
  
  <!ENTITY % medialabel.element "INCLUDE">  
  <![%medialabel.element;[
    <!ELEMENT medialabel (%smallcptr.char.mix;)*>  
    <!--end of medialabel.element-->
  ]]>  
  <!--end of medialabel.module-->
]>

<!-- ENTITY % medialabel.attlist "INCLUDE" -->  
<![%medialabel.attlist;[
  <![%menuchoice.content.module;[
    <![%menuchoice.module;[
      <![%moreinfo.attrib;]>
    ]]>  
  ]]>  
  <!--end of menuchoice.content.module-->
]>

<!-- END OF LOCAL.MEDIALABEL.ATTRIB -->  
<!ENTITY % menuchoice.content.module "INCLUDE">  
<![%menuchoice.content.module;[
  <!ENTITY % menuchoice.module "INCLUDE">  
  <![%menuchoice.module;[
    <!ENTITY % local.menuchoice.attrib "";>  
    <!ENTITY % menuchoice.role.attrib "%role.attrib;";>  
    
    <!ENTITY % menuchoice.element "INCLUDE">  
    <![%menuchoice.element;[
      <!ELEMENT menuchoice (shortcut?, (guibutton|guiicon|guilabel
      [guimenu|guimenuitem|guisubmenu|interface)+)>  
      <!--end of menuchoice.element-->
    ]]>  
    <!--end of menuchoice.module-->
  ]]>  
  <!--end of menuchoice.content.module-->
]>

<!-- More info attribute -->  
<!ENTITY % menuchoice.attlist "INCLUDE">  
<![%menuchoice.attlist;[
  <![%menuchoice.element;[
  <![%menuchoice.attlist;[
    %moreinfo.attrib;]>
  ]]>  
  <!--end of menuchoice.element-->
]>

<!-- Open Source Used In Cisco Modeling Labs 2.4 9934 -->
<!ENTITY % sgmltag.attlist "INCLUDE">
<!ATTLIST sgmltag
class (attribute
|attvalue
|element
|endtag
    |emptytag
|genentity
|numcharref
|paramentity
|pi
    |xmlpi
|starttag
|sgmlcomment)#IMPLIED
%common.attrib;
%sgmltag.role.attrib;
%local.sgmltag.attrib;
>
<!--end of sgmltag.attlist-->]]>
<!--end of sgmltag.module-->]]>

<!ENTITY % structfield.module "INCLUDE">
<!ENTITY % local.structfield.attrib "">
<!ENTITY % structfield.role.attrib "%role.attrib;">

<!ENTITY % structfield.element "INCLUDE">
<!ENTITY % structfield.attlist:
<!ATTLIST structfield
%common.attrib;
%structfield.role.attrib;
%local.structfield.attrib;
>
<!--end of structfield.attlist-->]]>
<!--end of structfield.module-->]]>
<ENTITY % manvolnum.module "INCLUDE">
<![%manvolnum.module;]
<ENTITY % local.manvolnum.attrib "">
<ENTITY % namvolnum.role.attrib "%role.attrib;">

<ENTITY % manvolnum.element "INCLUDE">
<![%manvolnum.element;]
<!ELEMENT manvolnum (%word.char.mix;)*>
<!--end of manvolnum.element-->]]>

<ENTITY % manvolnum.attlist "INCLUDE">
<![%manvolnum.attlist;]
<!ATTLIST manvolnum
%common.attrib;
%namvolnum.role.attrib;
%local.manvolnum.attrib;
>
<!--end of manvolnum.attlist-->]]>
<!--end of manvolnum.module-->]]>

<ENTITY % citetitle.module "INCLUDE">
<![%citetitle.module;]
<ENTITY % local.citetitle.attrib "">
<ENTITY % citetitle.role.attrib "%role.attrib;">

<ENTITY % citetitle.element "INCLUDE">
<![%citetitle.element;]
<!ELEMENT citetitle (%para.char.mix;)*>
<!--end of citetitle.element-->]]>

<!-- Pubwork: Genre of published work cited; no default -->

<ENTITY % citetitle.attlist "INCLUDE">
<![%citetitle.attlist;]
<!ATTLIST citetitle
pubwork(article
|book
|chapter
|part
|refentry
|section
|journal
|series
|set
|manuscript)#IMPLIED
%common.attrib;
%citetitle.role.attrib;
<!ENTITY % indexterm.content.module "INCLUDE">
<![%indexterm.content.module;]
<!ENTITY % indexterm.module "INCLUDE">
<![%indexterm.module;]
<!ENTITY % local.indexterm.attrib "">
<!ENTITY % indexterm.role.attrib "%role.attrib;">

<!ENTITY % indexterm.element "INCLUDE">
<![%indexterm.element;]
<ELEMENT indexterm (primary?, ((secondary, ((tertiary, (see|seealso+)?) | see | seealso+)?) | see | seealso+)?)
<!--end of indexterm.element-->]]>

<!-- Scope: Indicates which generated indices the IndexTerm should appear in: Global (whole document set), Local (this document only), or All (both) -->
<!-- Significance: Whether this IndexTerm is the most pertinent of its series (Preferred) or not (Normal, the default) -->
<!-- Class: Indicates type of IndexTerm; default is Singular, or EndOfRange if StartRef is supplied; StartOfRange value must be supplied explicitly on starts of ranges -->
<!-- StartRef: ID of the IndexTerm that starts the indexing range ended by this IndexTerm -->
<!-- Zone: IDs of the elements to which the IndexTerm applies, and indicates that the IndexTerm applies to those entire elements rather than the point at which the IndexTerm occurs -->

<!ENTITY % indexterm.attlist "INCLUDE">
<![%indexterm.attlist;]
<!ATTLIST indexterm
%pagenum.attrib; scope(all |global |local)#IMPLIED
significance(preferred |normal|"normal")#IMPLIED
class(singular |startofrange |endofrange)#IMPLIED
startrefIDREF#IMPLIED
zoneIDREFS#IMPLIED
%common.attrib;
%indexterm.role.attrib;
%local.indexterm.attrib;>

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1.876 fakeroot 1.24-1
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   Version 3, 29 June 2007

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The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

---

import io, sys
from setuptools import setup

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

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

    arguments = {
        'name': 'idna',
        'packages': [idna],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
        'test_suite': 'tests',
    }
setup(**arguments)

if __name__ == '__main__':
    main()

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

1.878 connexion 2.11.2
1.878.1 Available under license:

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1.879 zlib 1.2.11
1.879.1 Available under license:

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

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*/

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1.880 go-chi-chi 5.0.7
1.880.1 Available under license :

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1.881 x-xerrors 0.0.0-20200804184101-5ec99f83aff1
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1.882 ppp 2.4.7-2+4.1ubuntu5.1
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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
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src/bdf/bdf.h
src/bdf/bdfdrivr.c
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1.904 pep517 0.12.0

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1.906 pyrsistent 0.15.5-1build1

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1.912 libtimedate-perl 2.3200-1

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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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* /opt/cola/permits/1222674882_1635753522.59/0/libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-2.32/lib/Date/Format.pm
* /opt/cola/permits/1222674882_1635753522.59/0/libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-2.32/lib/Date/Parse.pm
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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);
}
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=cut
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* /opt/cola/permits/1222674882_1635753522.59/0/libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate2.32/lib/Date/Language/Bulgarian.pm
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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

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resources:
  bugtracker: https://github.com/atoomic/perl-TimeDate/issues
  repository: https://github.com/atoomic/perl-TimeDate
  version: '2.32'
  x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
  * /opt/cola/permits/1222674882_1635753522.59/0/libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-
    2.32/META.yml
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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)

=head1 LICENCE

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=cut

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  * /opt/cola/permits/1222674882_1635753522.59/0/libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-
    2.32/lib/Date/Language/Hungarian.pm
1.913 speex 1.2~rc1.2-1.1ubuntu1.20.04.1

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1.914 rsync 3.1.3

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**1.919 cairo 1.16.0-4ubuntu1**

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1.940 jkeiser-iter 0.0.0-20200628201005-c8aa0ae784d1
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Source: http://launchpad.net/ssh-import-id
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--------

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* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
-----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------
With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
    id        INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            ),
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            ),
        )
    )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
  id=123
  room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
``` 

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
``` 

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
``` 

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
```
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](http://snmplabs.com/pyasn1/),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely
available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected,
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](http://stackoverflow.com/questions/ask)
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---
Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.python.org/pypi/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocolbuffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:
* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1> on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::
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Use case
--------

.. toctree::
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/example-use-case

Download & Install
------------------

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Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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Getting help
------------


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Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we’d highly recommend reading a proper book on the subject.
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lib/snprintf.c, lib/snprintf.h:

Open Source Used In Cisco Modeling Labs 2.4  10481
tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
        traditional one-character options, and GNU'ish
            --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz
Platforms: Requires ANSI C-compiler.
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This package's upstream homepage is http://xmlsoft.org/XSLT/

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

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

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

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

If such an object file uses only numerical parameters, data
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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.

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1.968 libndp 1.7-0ubuntu1

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Python License
==============

A. HISTORY OF THE SOFTWARE
============================

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

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

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

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

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

Mersenne Twister

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The `_random' module includes code based on a download from
'\http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The
following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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

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

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

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

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

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2.6.5  2.6.4  2010  PSF  yes  

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  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
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1.973 zlib 1.2.11.dfsg-2ubuntu1.2

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

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

The data format used by the zlib library is described by RFCs (Request for
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
1.974 laizr-restfulclient 0.14.2-2build1

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1.976 libsamplerate 0.1.9-2

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

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

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

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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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
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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

Changed so as no longer to depend on Colin Plumb's `usual.h' header definitions; now uses stuff from dpkg's config.h
    - Ian Jackson <ijackson@nyx.cs.du.edu>.
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1.995 curl 7.68.0-1ubuntu2.11

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

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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
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DRuntime: Runtime Library for the D Programming Language

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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