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1.1 jpillora-backoff 1.0.0

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* configure.ac, Makefile.am: The original versions were derived from the 
ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were 
derived from the ones in the Monotone project, revision 
3a0982da308228d796df35f98d787c5cfff2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: 
  These files were derived from the file_handle, systembuf, pipe and pistream 
classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, 
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, 
  except the first one, were first implemented in the Buildtool project. 
  They were later adapted to be part of Boost.Process and, during that 
  process, the shell script was created.

  Author: Julio Merino <jmmv84@gmail.com>

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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">
  <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"/>
      </xsl:call-template>
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1.8 python3-werkzeug 0.14.1+dfsg1-1ubuntu0.1

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1.9 xorm.io-core 0.7.3
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1.10 docker-credential-helpers 0.6.3
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1.11 fwd 1.1.1

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1.12 armon-go-metrics 0.3.0

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1.13 ubuntu-keyring 2018.09.18.1~18.04.2

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<michael.vogt@canonical.com>

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1.14 libsemanage 2.7 2build2
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**1.17 fribidi 0.19.7-2**

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Version 2.1, February 1999

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use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;
local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;

printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );
print "-----------------------------------\n";
print "+encode()\n";
print "-----------------------------------\n";

$result = timethese( -$wanttime,
    
    
    'JSON::PP' => sub { $pp->encode( $perl ) },
    'JSON::XS' => sub { $xs->encode( $perl ) },
    
    'none'
);
 cmpthese( $result );

print "-----------------------------------\n";
print "+pretty->canonical->encode()\n";
print "-----------------------------------\n";

$pp->pretty->canonical;
$xs->pretty->canonical;

$result = timethese( -$wanttime,
    
    
    'JSON::PP' => sub { $pp->encode( $perl ) },
    'JSON::XS' => sub { $xs->encode( $perl ) },
    
    'none'
);
 cmpthese( $result );

print "-----------------------------------\n";

__END__

=head1 SYNOPSIS

bench_encode.pl json-file
# or
bench_encode.pl json-file minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> encoding benchmark.

=head1 AUTHOR
makamaka

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use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export );  # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp = JSON::PP->new->utf8;
my $xs = JSON::XS->new->utf8;

local $/;

my $json = <>

my $perl = JSON::XS::decode_json $json;

my $result;

printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );

print "-----------------------------------\n";
print "->decode()\n";
print "-----------------------------------\n";

$result = timethese( -$wanttime,
    { 'JSON::PP' => sub { $pp->decode( $json ) },
    'JSON::XS' => sub { $xs->decode( $json ) },
    },
'JSON::XS' => sub { $xs->decode($json) },

'none'
);
cmpthese($result);

print "-----------------------------------

__END__

=pod

=head1 SYNOPSYS

bench_decode.pl json-file
# or
bench_decode.pl json-file minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> decoding benchmark.

=head1 AUTHOR

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=pod

=head1 NAME

JSON::PP - JSON::XS compatible pure-Perl module.

=head1 SYNOPSIS

use JSON::PP;
# exported functions, they croak on error
# and expect/generate UTF-8

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

# OO-interface

$json = JSON::PP->new->ascii->pretty->allow_nonref;

$pretty_printed_json_text = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

# Note that JSON version 2.0 and above will automatically use
# JSON::XS or JSON::PP, so you should be able to just:

use JSON;

=head1 VERSION

2.97001

=head1 DESCRIPTION

JSON::PP is a pure perl JSON decoder/encoder (as of RFC4627, which
we know is obsolete but we still stick to; see below for an option
to support part of RFC7159), and (almost) compatible to much
faster L<JSON::XS> written by Marc Lehmann in C. JSON::PP works as
a fallback module when you use L<JSON> module without having
installed JSON::XS.

Because of this fallback feature of JSON.pm, JSON::PP tries not to
be more JavaScript-friendly than JSON::XS (i.e. not to escape extra
characters such as U+2028 and U+2029 nor support RFC7159/ECMA-404),
in order for you not to lose such JavaScript-friendliness silently
when you use JSON.pm and install JSON::XS for speed or by accident.
If you need JavaScript-friendly RFC7159-compliant pure perl module,
try L<JSON::Tiny>, which is derived from L<Mojolicious> web
framework and is also smaller and faster than JSON::PP.

JSON::PP has been in the Perl core since Perl 5.14, mainly for
CPAN toolchain modules to parse META.json.

=head1 FUNCTIONAL INTERFACE

This section is taken from JSON::XS almost verbatim. C<encode_json>
and `decode_json` are exported by default.

=head2 encode_json

$jsontext = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string
(that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

```perl
$jsontext = JSON::PP->new->utf8->encode($perl_scalar)
```

Except being faster.

=head2 decode_json

$perl_scalar = decode_json $jsontext

The opposite of `encode_json`: expects an UTF-8 (binary) string and tries
to parse that as an UTF-8 encoded JSON text, returning the resulting
reference. Croaks on error.

This function call is functionally identical to:

```perl
$perl_scalar = JSON::PP->new->utf8->decode($jsontext)
```

Except being faster.

=head2 JSON::PP::is_bool

$is_boolean = JSON::PP::is_bool($scalar)

Returns true if the passed scalar represents either JSON::PP::true or
JSON::PP::false, two constants that act like `1` and `0` respectively
and are also used to represent JSON `<true>` and `<false>` in Perl strings.

See L<MAPPING>, below, for more information on how JSON values are mapped to
Perl.

=head1 OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or
decoding style, within the limits of supported formats.
$json = JSON::PP->new
Creates a new JSON::PP object that can be used to de/encode JSON
strings. All boolean flags described below are by default I<disabled>.
The mutators for flags all return the JSON::PP object again and thus calls can
be chained:
my $json = JSON::PP->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}
=head2 ascii
$json = $json->ascii([$enable])
$enabled = $json->get_ascii
If C<$enable> is true (or missing), then the C<encode> method will not
generate characters outside the code range C<0..127> (which is ASCII). Any
Unicode characters outside that range will be escaped using either a
single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence,
as per RFC4627. The resulting encoded JSON text can be treated as a native
Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string,
or any other superset of ASCII.
If C<$enable> is false, then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags. This results
in a faster and more compact format.
See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.
The main use for this flag is to produce JSON texts that can be
transmitted over a 7-bit channel, as the encoded JSON texts will not
contain any 8 bit characters.
JSON::PP->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\udc01"]
=head2 latin1
$json = $json->latin1([$enable])
$enabled = $json->get_latin1
If C<$enable> is true (or missing), then the C<encode> method will encode
the resulting JSON text as latin1 (or iso-8859-1), escaping any characters
outside the code range C<0..255>. The resulting string can be treated as a

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latin1-encoded JSON text or a native Unicode string. The C<decode> method will not be affected in any way by this flag, as C<decode> by default expects Unicode, which is a strict superset of latin1.

If C<$enable> is false, then the C<encode> method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking to other JSON encoders/decoders.

```
JSON::PP->new->latin1->encode ("\x{89}\x{abc}"
=> ["\x{89}\u0abc"]    # (perl syntax, U+abc escaped, U+89 not)
=\head2\utf8

$json = $json->utf8([$enable])

$enabled = $json->get_utf8
```

If C<$enable> is true (or missing), then the C<encode> method will encode the JSON result into UTF-8, as required by many protocols, while the C<decode> method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range C<0..255>, they are thus useful for bytewise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If C<$enable> is false, then the C<encode> method will return the JSON string as a (non-encoded) Unicode string, while C<decode> expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$jsontext = encode "UTF-16BE", JSON::PP->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:
use Encode;
$object = JSON::PP->new->decode (decode "UTF-32LE", $jsoncontext);

=head2 pretty

$json = $json->pretty([$enable])

This enables (or disables) all of the C<indent>, C<space_before> and C<space_after> (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

=head2 indent

$json = $json->indent([$enable])

$enabled = $json->get_indent

If C<$enable> is true (or missing), then the C<encode> method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

The default indent space length is three.
You can use C<indent_length> to change the length.

=head2 space_before

$json = $json->space_before([$enable])

$enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode> method will add an extra optional space before the C:<:> separating keys from values in JSON objects.

If C<$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts. You will also most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

{"key" : "value"}
If C<$enable> is true (or missing), then the C<encode> method will add an extra optional space after the C:<>: separating keys from values in JSON objects and extra whitespace after the C:<,> separating key-value pairs and array members.

If C<$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

{ "key": "value" }

If C<$enable> is true (or missing), then C<decode> will accept some extensions to normal JSON syntax (see below). C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

[ ]
1, 2, <- this comma not normally allowed
]
{
  "k1": "v1",
  "k2": "v2", <- this comma not normally allowed
}

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

[ 1, # this comment not allowed in JSON
   # neither this one...
]

=item * C-style multiple-line '/* */'-comments (JSON::PP only)

Whenever JSON allows whitespace, C-style multiple-line comments are additionally allowed. Everything between C</*> and C<*/> is a comment, after which more white-space and comments are allowed.

[ 1, /* this comment not allowed in JSON */
   /* neither this one... */
]

=item * C++-style one-line '//'-comments (JSON::PP only)

Whenever JSON allows whitespace, C++-style one-line comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

[ 1, // this comment not allowed in JSON
   // neither this one...
]

=back

=head2 canonical

$json = $json->canonical([$enable])

$enabled = $json->get_canonical
If $enable$ is true (or missing), then the $encode$ method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If $enable$ is false, then the $encode$ method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script, and can change even within the same run from 5.18 onwards).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

=head2 allow_nonref

$json = $json->allow_nonref($enable)

$enabled = $json->get_allow_nonref

If $enable$ is true (or missing), then the $encode$ method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, $encode$ will accept those JSON values instead of croaking.

If $enable$ is false, then the $encode$ method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, $decode$ will croak if given something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value with enabled $allow_nonref$, resulting in an invalid JSON text:

```perl
JSON::PP->new->allow_nonref->encode ('Hello, World!')
=> "Hello, World!"
```

=head2 allow_unknown

$json = $json->allow_unknown($enable)

$enabled = $json->get_allow_unknown

If $enable$ is true (or missing), then $encode$ will not throw an exception when it encounters values it cannot represent in JSON (for
example, filehandles) but instead will encode a JSON C<null> value. Note
that blessed objects are not included here and are handled separately by
c<allow_blessed>.

If C<$enable> is false (the default), then C<encode> will throw an
exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to
leave it off unless you know your communications partner.

=head2 allow_blessed

$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then the C<encode> method will not
barf when it encounters a blessed reference that it cannot convert
otherwise. Instead, a JSON C<null> value is encoded instead of the object.

If C<$enable> is false (the default), then C<encode> will throw an
exception when it encounters a blessed object that it cannot convert
otherwise.

This setting has no effect on C<decode>.

=head2 convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a
blessed object, will check for the availability of the C<TO_JSON> method
on the object's class. If found, it will be called in scalar context and
the resulting scalar will be encoded instead of the object.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON>
returns other blessed objects, those will be handled in the same
way. C<TO_JSON> must take care of not causing an endless recursion cycle
(== crash) in this case. The name of C<TO_JSON> was chosen because other
methods called by the Perl core (== not by the user of the object) are
usually in upper case letters and to avoid collisions with any C<to_json>
function or method.
If \texttt{enable} is false (the default), then \texttt{encode} will not consider this type of conversion.

This setting has no effect on \texttt{decode}.

\begin{verbatim}
=head2 filter_json_object

$json = $json->filter_json_object([$coderef])

When \texttt{coderef} is specified, it will be called from \texttt{decode} each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: \texttt{not undef}, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When \texttt{coderef} is omitted or undefined, any existing callback will be removed and \texttt{decode} will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

my $js = JSON::PP->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('[{}]'); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2}');
\end{verbatim}

\begin{verbatim}
=head2 filter_json_single_key_object

$json = $json->filter_json_single_key_object($key => $coderef)

Works remotely similar to \texttt{filter_json_object}, but is only called for JSON objects having a single key named \texttt{key}.

This \texttt{coderef} is called before the one specified via \texttt{filter_json_object}, if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even \texttt{undef} but the empty list), the callback from \texttt{filter_json_object} will be called next, as if no single-key callback were specified.

If \texttt{coderef} is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.
As this callback gets called less often then the C<filter_json_object>
one, decoding speed will not usually suffer as much. Therefore, single-key
objects make excellent targets to serialise Perl objects into, especially
as single-key JSON objects are as close to the type-tagged value concept
as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not
support this in any way, so you need to make sure your data never looks
like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or
C<$__dollars_are_rarely_used__$> or C<}ugly_brace_placement>, or even
things like C<__class_md5sum(classname)__>, to reduce the risk of clashing
with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >>
into the corresponding C<< $WIDGET[<id>] >> object:

```perl
# return whatever is in $WIDGET[5]:
JSON::PP
->new
->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_->[0] }
})
->decode ('{"__widget__": 5')
```

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
        $self->{id} = ..get..some..id..;
        $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
}

=head2 shrink

$json = $json->shrink([$enable])

$enabled = $json->get_shrink

If C<$enable> is true (or missing), the string returned by C<encode> will
be shrunk (i.e. downgraded if possible).

The actual definition of what shrink does might change in future versions,
but it will always try to save space at the expense of time.

If \( \text{C<enable>} \) is false, then JSON::PP does nothing.

=head2 max_depth

\[
\text{$json = $json->max_depth($maximum_nesting_depth)}
\]

\[
\text{$max_depth = $json->get_max_depth}
\]

Sets the maximum nesting level (default \( \text{C<512>} \)) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of \( \text{C<{>} or C<[> characters without their matching closing parenthesis crossed to reach a given character in a string.}

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 max_size

\[
\text{$json = $json->max_size($maximum_string_size)}
\]

\[
\text{$max_size = $json->get_max_size}
\]

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is \( \text{C<0>} \), meaning no limit. When \( \text{C<decode>} \) is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on \( \text{C<encode>} \) (yet).

If no argument is given, the limit check will be deactivated (same as when \( \text{C<0>} \) is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 encode

\[
\text{$json_text = $json->encode($perl_scalar)}
\]
Converts the given Perl value or data structure to its JSON representation. Croaks on error.

=head2 decode

$perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

=head2 decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.

    JSON::PP->new->decode_prefix("[1] the tail")
    => ([1], 3)

=head1 FLAGS FOR JSON::PP ONLY

The following flags and properties are for JSON::PP only. If you use any of these, you can't make your application run faster by replacing JSON::PP with JSON::XS. If you need these and also speed boost, try L<Cpanel::JSON::XS>, a fork of JSON::XS by Reini Urban, which supports some of these.

=head2 allow_singlequote

$json = $json->allow_singlequote([$enable])
$enabled = $json->get_allow_singlequote

If C<$enable> is true (or missing), then C<decode> will accept invalid JSON texts that contain strings that begin and end with single quotation marks. C<encode> will not be affected in anyway.

I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

$json->allow_singlequote->decode(qq|"foo":"bar"|);
$json->allow_singlequote->decode(qq|"foo":"bar"|);
$json->allow_singlequote->decode(qq|"foo`bar"|);

=head2 allow_barekey

$json = $json->allow_barekey([$enable])
$enabled = $json->get_allow_barekey

If C<$enable> is true (or missing), then C<decode> will accept
invalid JSON texts that contain JSON objects whose names don't
begin and end with quotation marks. C<encode> will not be affected
in anyway. I<Be aware that this option makes you accept invalid JSON
texts as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration
files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

$json->allow_barekey->decode(qq|{foo:"bar"}|);

=head2 allow_bignum

$json = $json->allow_bignum([$enable])
$enabled = $json->get_allow_bignum

If C<$enable> is true (or missing), then C<decode> will convert
big integers Perl cannot handle as integer into L<Math::BigInt>
objects and convert floating numbers into L<Math::BigFloat>
objects. C<encode> will convert C<Math::BigInt> and C<Math::BigFloat>
objects into JSON numbers.

$json->allow_nonref->allow_bignum;
$bigfloat = $json->decode('2.00000000000000000000000000000001');
print $json->encode($bigfloat);
# => 2.00000000000000000000000000000001

See also L<MAPPING>.

=head2 loose

$json = $json->loose([$enable])
$enabled = $json->get_loose

If C<$enable> is true (or missing), then C<decode> will accept
invalid JSON texts that contain unescaped [\x00-\x1f\x22\x5c] characters. C<encode> will not be affected in anyway.
I<Be aware that this option makes you accept invalid JSON texts
as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration
files, resource files etc.)

If C$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

$json->loose->decode(qq|"abc
def"|);

=head2 escape_slash

$json = $json->escape_slash([$enable])
$enabled = $json->get_escape_slash

If C$enable> is true (or missing), then C<encode> will explicitly
escape I<slash> (solidus; C<U+002F>) characters to reduce the risk of
XSS (cross site scripting) that may be caused by C<< </script> >>
in a JSON text, with the cost of bloating the size of JSON texts.

This option may be useful when you embed JSON in HTML, but embedding
arbitrary JSON in HTML (by some HTML template toolkit or by string
interpolation) is risky in general. You must escape necessary
characters in correct order, depending on the context.
C<decode> will not be affected in anyway.

=head2 indent_length

$json = $json->indent_length($number_of_spaces)
$length = $json->get_indent_length

This option is only useful when you also enable C<indent> or C<pretty>.

JSON::XS indents with three spaces when you C<encode> (if requested
by C<indent> or C<pretty>), and the number cannot be changed.
JSON::PP allows you to change/get the number of indent spaces with these
mutator/accessor. The default number of spaces is three (the same as
JSON::XS), and the acceptable range is from C<0> (no indentation;
it'd be better to disable indentation by C<indent(0)>) to C<15>.

=head2 sort_by

$json = $json->sort_by($code_ref)
$json = $json->sort_by($subroutine_name)
If you just want to sort keys (names) in JSON objects when you `encode`, enable `canonical` option (see above) that allows you to sort object keys alphabetically.

If you do need to sort non-alphabetically for whatever reasons, you can give a code reference (or a subroutine name) to `sort_by`, then the argument will be passed to Perl's `sort` built-in function.

As the sorting is done in the JSON::PP scope, you usually need to prepend `JSON::PP::` to the subroutine name, and the special variables `$a` and `$b` used in the subroutine used by `sort` function.

Example:

```perl
my %ORDER = (id => 1, class => 2, name => 3);
$json->sort_by(sub {
    ($ORDER{$JSON::PP::a} // 999) <=> ($ORDER{$JSON::PP::b} // 999)
    or $JSON::PP::a cmp $JSON::PP::b
});

print $json->encode([{
    name => 'CPAN', id => 1, href => 'http://cpan.org'
}]);
# [{"id":1,"name":"CPAN","href":"http://cpan.org"}]
```

Note that `sort_by` affects all the plain hashes in the data structure. If you need finer control, `tie` necessary hashes with a module that implements ordered hash (such as `Hash::Ordered` and `Tie::IxHash`). `canonical` and `sort_by` don't affect the key order in `tie`d hashes.

```perl
use Hash::Ordered;
tie my %hash, 'Hash::Ordered',
    (name => 'CPAN', id => 1, href => 'http://cpan.org');

print $json->encode(%hash);
# [{"id":1,"name":"CPAN","href":"http://cpan.org"}] # order is kept
```

=head1 INCREMENTAL PARSING

This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using `decode_prefix` to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method
calls).

JSON::PP will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect mismatched parentheses. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. C<max_size>) to ensure the parser will stop parsing in the presence if syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

$json->incr_parse( [string] ) # void context

$obj_or_undef = $json->incr_parse( [string] ) # scalar context

@obj_or_empty = $json->incr_parse( [string] ) # list context

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If C<string> is given, then this string is appended to the already existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly I<one> JSON object. If that is successful, it will return this object, otherwise it will return C<undef>. If there is a parse error, this method will croak just as C<decode> would do (one can then use C<incr_skip> to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return
them.

    my @objs = JSON::PP->new->incr_parse ("[5][7][1,2]");

=head2 incr_text

$lvalue_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This is only works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it will fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

=head2 incr_skip

$json->incr_skip

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to C<incr_reset> is that only text until the parse error occurred is removed.

=head2 incr_reset

$json->incr_reset

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.
MAPPING

Most of this section is also taken from JSON::XS.

This section describes how JSON::PP maps Perl values to JSON values and vice versa. These mappings are designed to "do the right thing" in most circumstances automatically, preserving round-tripping characteristics (what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions, lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl> refers to the abstract Perl language itself.

JSON -> PERL

item object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

item array

A JSON array becomes a reference to an array in Perl.

item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, JSON::PP will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be
represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, JSON::PP only guarantees precision up to but not including the least significant bit.

When C<allow_bignum> is enabled, big integer values and any numeric values will be converted into L<Math::BigInt> and L<Math::BigFloat> objects respectively, without becoming string scalars or losing precision.

=item true, false

These JSON atoms become C<JSON::PP::true> and C<JSON::PP::false>, respectively. They are overloaded to act almost exactly like the numbers C<1> and C<0>. You can check whether a scalar is a JSON boolean by using the C<JSON::PP::is_bool> function.

=item null

A JSON null atom becomes C<undef> in Perl.

=item shell-style comments (C<# I<text> >)

As a nonstandard extension to the JSON syntax that is enabled by the C<relaxed> setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

=head2 Perl hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. JSON::PP can optionally sort the hash keys (determined by the I<canonical> flag and/or I<sort_by> property), so
the same data structure will serialise to the same JSON text (given same settings and version of JSON::PP), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::PP::false> and C<JSON::PP::true> to improve readability.

    to_json [0, JSON::PP::true]   # yields [false,true]

=item JSON::PP::true, JSON::PP::false

These special values become JSON true and JSON false values, respectively. You can also use C\1\ and C\0\ directly if you want.

=item JSON::PP::null

This special value becomes JSON null.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::PP> allows various ways of handling objects. See L<OBJECT SERIALISATION>, below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::PP will encode undefined scalars as JSON C<null> values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

    # dump as number
    encode_json [-3.0e17]      # yields [-3e+17]
    my $value = 5; encode_json [$value]  # yields [5]

    # used as string, so dump as string
    print $value;
encode_json [$value]  # yields "5"

# undef becomes null
encode_json [undef]  # yields [null]

You can force the type to be a string by stringifying it:

my $x = 3.1;  # some variable containing a number
"$x";  # stringified
$x .= "";  # another, more awkward way to stringify
print $x;  # perl does it for you, too, quite often
  # (but for older perls)

You can force the type to be a number by numifying it:

my $x = "3";  # some variable containing a string
$x += 0;  # numify it, ensuring it will be dumped as a number
$x *= 1;  # same thing, the choice is yours.

You cannot currently force the type in other, less obscure, ways.

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

JSON::PP (and JSON::XS) trusts what you pass to C<encode> method (or C<encode_json> function) is a clean, validated data structure with values that can be represented as valid JSON values only, because it's not from an external data source (as opposed to JSON texts you pass to C<decode> or C<decode_json>, which JSON::PP considers tainted and doesn't trust). As JSON::PP doesn't know exactly what you and consumers of your JSON texts want the unexpected values to be (you may want to convert them into null, or to stringify them with or without normalisation (string representation of infinities/NaN may vary depending on platforms), or to croak without conversion), you're advised to do what you and your consumers need before you encode, and also not to numify values that may start with values that look like a number (including infinities/NaN), without validating.

=back

=head2 OBJECT SERIALISATION

As for Perl objects, JSON::PP only supports a pure JSON representation (without the ability to deserialise the object automatically again).
What happens when \texttt{JSON::PP} encounters a Perl object depends on the \texttt{allow_blessed}, \texttt{convert_blessed} and \texttt{allow_bignum} settings, which are used in this order:

\textbullet \item \texttt{convert_blessed} is enabled and the object has a \texttt{TO\_JSON} method. In this case, the \texttt{TO\_JSON} method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following \texttt{TO\_JSON} method will convert all \texttt{URI} objects to JSON strings when serialised. The fact that these values originally were \texttt{URI} objects is lost.

\begin{verbatim}
sub URI::TO\_JSON {
    my ($uri) = @_;
    $uri->as\_string
}
\end{verbatim}

\textbullet \item \texttt{allow_bignum} is enabled and the object is a \texttt{Math::BigInt} or \texttt{Math::BigFloat}. The object will be serialised as a JSON number value.

\textbullet \item \texttt{allow_blessed} is enabled. The object will be serialised as a JSON null value.

\textbullet \item none of the above

If none of the settings are enabled or the respective methods are missing, \texttt{JSON::PP} throws an exception.
by C<decode>) is UTF-8 encoded or not, while C<latin1> and C<ascii> only
ccontrol whether C<encode> escapes character values outside their respective
codeset range. Neither of these flags conflict with each other, although
some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to
C<encode> and C<decode>, that is, texts encoded with any combination of
these flag values will be correctly decoded when the same flags are used
- in general, if you use different flag settings while encoding vs. when
decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is
simply an abstract set of character-codepoint pairs, while an encoding
takes those codepoint numbers and I<encodes> them, in our case into
octets. Unicode is (among other things) a codeset, UTF-8 is an encoding,
and ISO-8859-1 (= latin 1) and ASCII are both codesets I<and> encodings at
the same time, which can be confusing.

=over 4

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate
and expect Unicode strings, that is, characters with high ordinal Unicode
values (> 255) will be encoded as such characters, and likewise such
characters are decoded as-is, no changes to them will be done, except
"(re-)interpreting" them as Unicode codepoints or Unicode characters,
respectively (to Perl, these are the same thing in strings unless you do
funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you
want to have UTF-16 encoded JSON texts) or when some other layer does
the encoding for you (for example, when printing to a terminal using a
filehandle that transparently encodes to UTF-8 you certainly do NOT want
to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag is enabled, C<encode>/C<decode> will encode all
characters using the corresponding UTF-8 multi-byte sequence, and will
expect your input strings to be encoded as UTF-8, that is, no "character"
of the input string must have any value > 255, as UTF-8 does not allow
that.

The C<utf8> flag therefore switches between two modes: disabled means you
will get a Unicode string in Perl, enabled means you get an UTF-8 encoded
octet/binary string in Perl.
=item C<latin1> or C<ascii> flags enabled

With C<latin1> (or C<ascii>) enabled, C<encode> will escape characters with ordinal values > 255 (> 127 with C<ascii>) and encode the remaining characters as specified by the C<utf8> flag.

If C<utf8> is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If C<utf8> is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using C<uXXXX> then before.

Note that ISO-8859-1-I<encoded> strings are not compatible with UTF-8 encoding, while ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 I<codeset> being a subset of Unicode), while ASCII is.

Surprisingly, C<decode> will ignore these flags and so treat all input values as governed by the C<utf8> flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither C<latin1> nor C<ascii> are incompatible with the C<utf8> flag - they only govern when the JSON output engine escapes a character or not.

The main use for C<latin1> is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for C<ascii> is to force the output to not contain characters with values > 127, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

=head1 SEE ALSO

The F<json_pp> command line utility for quick experiments.

L<JSON::XS>, L<Cpanel::JSON::XS>, and L<JSON::Tiny> for faster alternatives. L<JSON> and L<JSON::MaybeXS> for easy migration.
L<JSON::backportPP::Compat5005> and L<JSON::backportPP::Compat5006> for older perl users.

RFC4627 (L<http://www.ietf.org/rfc/rfc4627.txt>)

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

=head1 COPYRIGHT AND LICENSE

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=cut

Found in path(s):
  * /opt/cola/permits/1197361778_1630042302.22/0/lib/json-perl-2.97001-orig-1-tar-gz/JSON-2.97001/lib/JSON/backportPP.pm

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

=pod

=head1 NAME

JSON::PP5005 - Helper module in using JSON::PP in Perl 5.005

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

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=cut
NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS

use JSON; # imports encode_json, decode_json, to_json and from_json.

# simple and fast interfaces (expect/generate UTF-8)

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref  = decode_json $utf8_encoded_json_text;

# OO-interface

$json = JSON->new->allow_nonref;

$json_text   = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing

VERSION

2.97001

DESCRIPTION

This module is a thin wrapper for JSON::XS-compatible modules with a few additional features. All the backend modules convert a Perl data structure to a JSON text as of RFC4627 (which we know is obsolete but we still stick to; see below for an option to support part of RFC7159) and vice versa. This module uses JSON::XS by default, and when JSON::XS is not available, this module falls back on JSON::PP, which is in the Perl core since 5.14. If JSON::PP is not available either, this module then falls back on JSON::backportPP (which is actually JSON::PP in a different .pm file) bundled in the same distribution as this module. You can also explicitly specify to use Cpanel::JSON::XS, a fork of JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between them, including extra features that other modules don't support, but as long as you use only common features (most important ones are described below), migration from backend to backend should be reasonably easy. For details, see each
backend module you use.

=head1 CHOOSING BACKEND

This module respects an environmental variable called C<PERL_JSON_BACKEND> when it decides a backend module to use. If this environmental variable is not set, it tries to load JSON::XS, and if JSON::XS is not available, it falls back on JSON::PP, and then JSON::backportPP if JSON::PP is not available either.

If you always don't want it to fall back on pure perl modules, set the variable like this (C<export> may be C<setenv>, C<set> and the likes, depending on your environment):

> export PERL_JSON_BACKEND=JSON::XS

If you prefer Cpanel::JSON::XS to JSON::XS, then:

> export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::XS,JSON::PP

You may also want to set this variable at the top of your test files, in order not to be bothered with incompatibilities between backends (you need to wrap this in C<BEGIN>, and set before actually C<use>-ing JSON module, as it decides its backend as soon as it's loaded):

BEGIN { $ENV{PERL_JSON_BACKEND}='JSON::backportPP'; }
use JSON;

=head1 USING OPTIONAL FEATURES

There are a few options you can set when you C<use> this module:

=over

=item -support_by_pp

BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }
use JSON -support_by_pp;

my $json = JSON->new;
# escape_slash is for JSON::PP only.
$json->allow_nonref->escape_slash->encode("/");

With this option, this module loads its pure perl backend along with its XS backend (if available), and lets the XS backend to watch if you set a flag only JSON::PP supports. When you do, the internal JSON::XS object is replaced with a newly created JSON::PP object with the setting copied
from the XS object, so that you can use JSON::PP flags (and its slower C<decode>/C<encode> methods) from then on. In other words, this is not something that allows you to hook JSON::XS to change its behavior while keeping its speed. JSON::XS and JSON::PP objects are quite different (JSON::XS object is a blessed scalar reference, while JSON::PP object is a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not to use this option and just to use JSON::PP explicitly when you need JSON::PP features.

=item -convert_blessed_universally

use JSON -convert_blessed_universally;

my $json = JSON->new->allow_nonref->convert_blessed;
my $object = bless {foo => 'bar'}, 'Foo';
$json->encode($object); # => {"foo":"bar"}

JSON::XS-compatible backend modules don't encode blessed objects by default (except for their boolean values, which are typically blessed JSON::PP::Boolean objects). If you need to encode a data structure that may contain objects, you usually need to look into the structure and replace objects with alternative non-blessed values, or enable C<convert_blessed> and provide a C<TO_JSON> method for each object's (base) class that may be found in the structure, in order to let the methods replace the objects with whatever scalar values the methods return.

If you need to serialise data structures that may contain arbitrary objects, it's probably better to use other serialisers (such as L<Sereal> or L<Storable> for example), but if you do want to use this module for that purpose, C<-convert_blessed_universally> option may help, which tweaks C<encode> method of the backend to install C<UNIVERSAL::TO_JSON> method (locally) before encoding, so that all the objects that don't have their own C<TO_JSON> method can fall back on the method in the C<UNIVERSAL> namespace. Note that you still need to enable C<convert_blessed> flag to actually encode objects in a data structure, and C<UNIVERSAL::TO_JSON> method installed by this option only converts blessed hash/array references into their unblessed clone (including private keys/values that are not supposed to be exposed). Other blessed references will be converted into null.

This feature is experimental and may be removed in the future.

=item -no_export
When you don't want to import functional interfaces from a module, you usually supply C<()> to its C<use> statement.

    use JSON (); # no functional interfaces

If you don't want to import functional interfaces, but you also want to use any of the above options, add C<-no_export> to the option list.

    # no functional interfaces, while JSON::PP support is enabled.
    use JSON -support_by_pp, -no_export;

=back

=head1 FUNCTIONAL INTERFACE

This section is taken from JSON::XS. C<encode_json> and C<decode_json> are exported by default.

This module also exports C<to_json> and C<from_json> for backward compatibility. These are slower, and may expect/generate different stuff from what C<encode_json> and C<decode_json> do, depending on their options. It's better just to use Object-Oriented interfaces than using these two functions.

=head2 encode_json

    $json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string (that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

    $json_text = JSON->new->utf8->encode($perl_scalar)

Except being faster.

=head2 decode_json

    $perl_scalar = decode_json $json_text

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference. Croaks on error.

This function call is functionally identical to:

    $perl_scalar = JSON->new->utf8->decode($json_text)
Except being faster.

=head2 to_json

$json_text = to_json($perl_scalar[, $optional_hashref])

Converts the given Perl data structure to a Unicode string by default. Croaks on error.

Basically, this function call is functionally identical to:

$json_text = JSON->new->encode($perl_scalar)

Except being slower.

You can pass an optional hash reference to modify its behavior, but that may change what C<to_json> expects/_generates (see C<ENCODING/CODESET FLAG NOTES> for details).

$json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})
# => JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)

=head2 from_json

$perl_scalar = from_json($json_text[, $optional_hashref])

The opposite of C<to_json>: expects a Unicode string and tries to parse it, returning the resulting reference. Croaks on error.

Basically, this function call is functionally identical to:

$perl_scalar = JSON->new->decode($json_text)

You can pass an optional hash reference to modify its behavior, but that may change what C<from_json> expects/Generates (see C<ENCODING/CODESET FLAG NOTES> for details).

$perl_scalar = from_json($json_text, {utf8 => 1})
# => JSON->new->utf8(1)->decode($json_text)

=head2 JSON::is_bool

istrib = JSON::is_bool($scalar)

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like C<1> and C<0> respectively and are also used to represent JSON C<true> and C<false> in Perl strings.
See L<MAPPING>, below, for more information on how JSON values are mapped to Perl.

=head1 COMMON OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or decoding style, within the limits of supported formats.

=head2 new

$json = JSON->new

Creates a new JSON::XS-compatible backend object that can be used to de/encode JSON strings. All boolean flags described below are by default I<disabled>.

The mutators for flags all return the backend object again and thus calls can be chained:

my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}

=head2 ascii

$json = $json->ascii([$enable])
$enabled = $json->get_ascii

If C<$enable> is true (or missing), then the C<encode> method will not generate characters outside the code range C<0..127> (which is ASCII). Any Unicode characters outside that range will be escaped using either a single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting encoded JSON text can be treated as a native Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string, or any other superset of ASCII.

If C<$enable> is false, then the C<encode> method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be transmitted over a 7-bit channel, as the encoded JSON texts will not contain any 8 bit characters.
If \( C<\$\text{enable}> \) is true (or missing), then the \( C<\text{encode}> \) method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range \( C<0..255> \). The resulting string can be treated as a latin1-encoded JSON text or a native Unicode string. The \( C<\text{decode}> \) method will not be affected in any way by this flag, as \( C<\text{decode}> \) by default expects Unicode, which is a strict superset of latin1.

If \( C<\$\text{enable}> \) is false, then the \( C<\text{encode}> \) method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking to other JSON encoders/decoders.

If \( C<\$\text{enable}> \) is true (or missing), then the \( C<\text{encode}> \) method will encode the JSON result into UTF-8, as required by many protocols, while the \( C<\text{decode}> \) method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range \( C<0..255> \), they are thus useful for bytewise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If \( C<\$\text{enable}> \) is false, then the \( C<\text{encode}> \) method will return the JSON string as a (non-encoded) Unicode string, while \( C<\text{decode}> \) expects thus a
Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```perl
use Encode;
$jsontext = encode "UTF-16BE", JSON->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```perl
use Encode;
$object = JSON->new->decode (decode "UTF-32LE", $jsontext);
```

=head2 pretty

```perl
$json = $json->pretty([$enable])
```

This enables (or disables) all of the C<indent>, C<space_before> and C<space_after> (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

=head2 indent

```perl
$json = $json->indent([$enable])
```

```perl
$enabled = $json->get_indent
```

If C<$enable> is true (or missing), then the C<encode> method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

=head2 space_before

```perl
$json = $json->space_before([$enable])
```

```perl
$enabled = $json->get_space_before
```

If C<$enable> is true (or missing), then the C<encode> method will add an extra optional space before the C<-> separating keys from values in JSON objects.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts. You will also most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

{"key": "value"}

=head2 space_after

$json = $json->space_after([$enable])

$enabled = $json->get_space_after

If C<$enable> is true (or missing), then the C<encode> method will add an extra optional space after the C:<:> separating keys from values in JSON objects and extra whitespace after the C<,> separating key-value pairs and array members.

If C<$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

{"key": "value"}

=head2 relaxed

$json = $json->relaxed([$enable])

$enabled = $json->get_relaxed

If C<$enable> is true (or missing), then C<decode> will accept some extensions to normal JSON syntax (see below). C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4
list items can have an end-comma

JSON separates array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
[  
  1,  
  2, <- this comma not normally allowed  
]
{
  "k1": "v1",  
  "k2": "v2", <- this comma not normally allowed  
}
```

shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[  
  1, # this comment not allowed in JSON  
      # neither this one...  
]
```

canonical

```
$json = $json->canonical($enable)

$enabled = $json->get_canonical
```

If $enable is true (or missing), then the encode method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If $enable is false, then the encode method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script, and can change even within the same run from 5.18 onwards).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.
This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

=head2 allow_nonref

$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

If C<$enable> is true (or missing), then the C<encode> method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, C<decode> will accept those JSON values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, C<decode> will croak if given something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value with enabled C<allow_nonref>, resulting in an invalid JSON text:

    JSON->new->allow_nonref->encode ('Hello, World!')
    => "Hello, World!"

=head2 allow_unknown

$json = $json->allow_unknown ([$enable])

$enabled = $json->get_allow_unknown

If C<$enable> is true (or missing), then C<encode> will I<not> throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON C<null> value. Note that blessed objects are not included here and are handled separately by C<allow_nonref>.

If C<$enable> is false (the default), then C<encode> will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to leave it off unless you know your communications partner.

=head2 allow_blessed

$json = $json->allow_blessed([$enable])
$enabled = $json->get_allow_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then the C<encode> method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON C<null> value is encoded instead of the object.

If C<$enable> is false (the default), then C<encode> will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on C<decode>.

=head2 convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<TO_JSON> method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON> returns other blessed objects, those will be handled in the same way. C<TO_JSON> must take care of not causing an endless recursion cycle (== crash) in this case. The name of C<TO_JSON> was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with any C<to_json> function or method.

If C<$enable> is false (the default), then C<encode> will not consider this type of conversion.

This setting has no effect on C<decode>.

=head2 filter_json_object

$json = $json->filter_json_object([$coderef])

When C<$coderef> is specified, it will be called from C<decode> each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which
need not be a reference), this value (i.e. a copy of that scalar to avoid
aliasing) is inserted into the deserialised data structure. If it returns
an empty list (NOTE: I<not> C<undef>, which is a valid scalar), the
original deserialised hash will be inserted. This setting can slow down
decoding considerably.

When C<$coderef> is omitted or undefined, any existing callback will
be removed and C<decode> will not change the deserialised hash in any
way.

Example, convert all JSON objects into the integer 5:

    my $js = JSON->new->filter_json_object (sub { 5 });
    # returns [5]
    $js->decode ('[{}]'); # the given subroutine takes a hash reference.
    # throw an exception because allow_nonref is not enabled
    # so a lone 5 is not allowed.
    $js->decode ({"a":1, "b":2});

=head2 filter_json_single_key_object

    $json = $json->filter_json_single_key_object($key => $coderef)

Works remotely similar to C<filter_json_object>, but is only called for
JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via
C<filter_json_object>, if any. It gets passed the single value in the JSON
object. If it returns a single value, it will be inserted into the data
structure. If it returns nothing (not even C<undef> but the empty list),
the callback from C<filter_json_object> will be called next, as if no
single-key callback were specified.

If C<$coderef> is omitted or undefined, the corresponding callback will be
disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the C<filter_json_object>
one, decoding speed will not usually suffer as much. Therefore, single-key
objects make excellent targets to serialise Perl objects into, especially
as single-key JSON objects are as close to the type-tagged value concept
as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not
support this in any way, so you need to make sure your data never looks
like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or
C<$__dollars_are_rarely_used__$> or C<}ugly_brace_placement>, or even
things like C<__class_md5sum(classname)__>, to reduce the risk of clashing
with real hashes.
Example, decode JSON objects of the form C<<< { "__widget__" => <id> } >>> into the corresponding C<<< $WIDGET{<id>} >>> object:

# return whatever is in $WIDGET{5}:
JSON
->new
->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5'}

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
        $self->{id} = ..get..some..id..;
        $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
}

=head2 max_depth

$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default C<512>) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of C<[]> or C<<>> characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

=head2 max_size
Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is C<0>, meaning no limit. When C<decode> is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when C<0> is specified).

=head2 encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

=head2 decode

$perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

=head2 decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.

JSON->new->decode_prefix ("[1] the tail")
=> ([1], 3)

=head1 ADDITIONAL METHODS

The following methods are for this module only.

=head2 backend
$backend = $json->backend

Since 2.92, C<backend> method returns an abstract backend module used currently, which should be JSON::Backend::XS (which inherits JSON::XS or Cpanel::JSON::XS), or JSON::Backend::PP (which inherits JSON::PP), not to monkey-patch the actual backend module globally.

If you need to know what is used actually, use C<isa>, instead of string comparison.

=head2 is_xs

$boolean = $json->is_xs

Returns true if the backend inherits JSON::XS or Cpanel::JSON::XS.

=head2 is_pp

$boolean = $json->is_pp

Returns true if the backend inherits JSON::PP.

=head2 property

$settings = $json->property()

Returns a reference to a hash that holds all the common flag settings.

$json = $json->property('utf8' => 1)
$value = $json->property('utf8') # 1

You can use this to get/set a value of a particular flag.

=head1 INCREMENTAL PARSING

This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using C<decode_prefix> to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

This module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but
truly incremental parser. This means that it sometimes won't stop as
early as the full parser, for example, it doesn't detect mismatched
parentheses. The only thing it guarantees is that it starts decoding as
soon as a syntactically valid JSON text has been seen. This means you need
to set resource limits (e.g. C<max_size>) to ensure the parser will stop
parsing in the presence if syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

$json->incr_parse( [$string] ) # void context

$obj_or undef = $json->incr_parse( [$string] ) # scalar context

@obj_or_empty = $json->incr_parse( [$string] ) # list context

This is the central parsing function. It can both append new text and
extract objects from the stream accumulated so far (both of these
functions are optional).

If C<$string> is given, then this string is appended to the already
existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply
return without doing anything further. This can be used to add more text
in as many chunks as you want.

If the method is called in scalar context, then it will try to extract
exactly I<one> JSON object. If that is successful, it will return this
object, otherwise it will return C<undef>. If there is a parse error,
this method will croak just as C<decode> would do (one can then use
C<incr_skip> to skip the erroneous part). This is the most common way of
using the method.

And finally, in list context, it will try to extract as many objects
from the stream as it can find and return them, or the empty list
otherwise. For this to work, there must be no separators (other than
whitespace) between the JSON objects or arrays, instead they must be
concatenated back-to-back. If an error occurs, an exception will be
raised as in the scalar context case. Note that in this case, any
previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return
them.

    my @objs = JSON->new->incr_parse ("[5][7][1,2]");
$lvalue_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

$json->incr_skip

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to C<incr_reset> is that only text until the parse error occurred is removed.

$json->incr_reset

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

Most of this section is also taken from JSON::XS.
This section describes how the backend modules map Perl values to JSON values and vice versa. These mappings are designed to "do the right thing" in most circumstances automatically, preserving round-tripping characteristics (what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions, lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl> refers to the abstract Perl language itself.

=head2 JSON -> PERL

=over 4

=item object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, this module will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).
Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, this module only guarantees precision up to but not including the least significant bit.

=item true, false

These JSON atoms become C<JSON::true> and C<JSON::false>, respectively. They are overloaded to act almost exactly like the numbers C<1> and C<0>. You can check whether a scalar is a JSON boolean by using the C<JSON::is_bool> function.

=item null

A JSON null atom becomes C<undef> in Perl.

=item shell-style comments (C<< # I<text> >>)

As a nonstandard extension to the JSON syntax that is enabled by the C<relaxed> setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. This module can optionally sort the hash keys (determined by the I<canonical> flag), so the same data structure will serialise to the same JSON text (given same settings and version of the same backend), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references
Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::false> and C<JSON::true> to improve readability.

    encode_json [0,JSON::true]      # yields [false,true]

=item JSON::true, JSON::false, JSON::null

These special values become JSON true and JSON false values, respectively. You can also use C<\1> and C<\0> directly if you want.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::XS> allows various ways of handling objects. See L<OBJECT SERIALISATION>, below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: this module will encode undefined scalars as JSON C<null> values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

    # dump as number
    encode_json [-3.0e17] # yields [-3e+17]
    my $value = 5; encode_json [$value] # yields [5]

    # used as string, so dump as string
    print $value;
    encode_json [$value]      # yields ["5"]

    # undef becomes null
    encode_json [undef]        # yields [null]

You can force the type to be a string by stringifying it:

    my $x = 3.1; # some variable containing a number
    "$x";        # stringified
    $x .= "";    # another, more awkward way to stringify
    print $x;    # perl does it for you, too, quite often

You can force the type to be a number by numifying it:

    my $x = "3"; # some variable containing a string
$x += 0;  # numify it, ensuring it will be dumped as a number
$x *= 1;  # same thing, the choice is yours.

You can not currently force the type in other, less obscure, ways. Tell me if you need this capability (but don't forget to explain why it's needed :).

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

=back

=head2 OBJECT SERIALISATION

As for Perl objects, this module only supports a pure JSON representation (without the ability to deserialise the object automatically again).

=head3 SERIALISATION

What happens when this module encounters a Perl object depends on the C<allow_blessed> and C<convert_blessed> settings, which are used in this order:

=over 4

=item 1. C<convert_blessed> is enabled and the object has a C<TO_JSON> method.

In this case, the C<TO_JSON> method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI> objects to JSON strings when serialised. The fact that these values originally were L<URI> objects is lost.

sub URI::TO_JSON {
    my ($uri) = @_;
    $uri->as_string
}

=item 2. C<allow_blessed> is enabled.

The object will be serialised as a JSON null value.
If none of the settings are enabled or the respective methods are missing, this module throws an exception.

=over 4

=item 3. none of the above

If none of the settings are enabled or the respective methods are missing, this module throws an exception.

=back

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify encodings or codesets - C<utf8>, C<latin1> and C<ascii>. There seems to be some confusion on what these do, so here is a short comparison:

C<utf8> controls whether the JSON text created by C<encode> (and expected by C<decode>) is UTF-8 encoded or not, while C<latin1> and C<ascii> only control whether C<encode> escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to C<encode> and C<decode>, that is, texts encoded with any combination of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and I<encodes> them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and ASCII are both codesets I<and> encodings at the same time, which can be confusing.

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate and expect Unicode strings, that is, characters with high ordinal Unicode values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does
the encoding for you (for example, when printing to a terminal using a
filehandle that transparently encodes to UTF-8 you certainly do NOT want
to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag is enabled, C<encode>/C<decode> will encode all
characters using the corresponding UTF-8 multi-byte sequence, and will
expect your input strings to be encoded as UTF-8, that is, no "character"
of the input string must have any value > 255, as UTF-8 does not allow
that.

The C<utf8> flag therefore switches between two modes: disabled means you
will get a Unicode string in Perl, enabled means you get an UTF-8 encoded
octet/binary string in Perl.

=item C<latin1> or C<ascii> flags enabled

With C<latin1> (or C<ascii>) enabled, C<encode> will escape characters
with ordinal values > 255 (> 127 with C<ascii>) and encode the remaining
characters as specified by the C<utf8> flag.

If C<utf8> is disabled, then the result is also correctly encoded in those
character sets (as both are proper subsets of Unicode, meaning that a
Unicode string with all character values < 256 is the same thing as a
ISO-8859-1 string, and a Unicode string with all character values < 128 is
the same thing as an ASCII string in Perl).

If C<utf8> is enabled, you still get a correct UTF-8-encoded string,
regardless of these flags, just some more characters will be escaped using
C<\uXXXX> then before.

Note that ISO-8859-1-I<encoded> strings are not compatible with UTF-8
encoding, while ASCII-encoded strings are. That is because the ISO-8859-1
encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 I<codeset> being
a subset of Unicode), while ASCII is.

Surprisingly, C<decode> will ignore these flags and so treat all input
values as governed by the C<utf8> flag. If it is disabled, this allows you
to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of
Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither C<latin1> nor C<ascii> are incompatible with the C<utf8> flag -
they only govern when the JSON output engine escapes a character or not.

The main use for C<latin1> is to relatively efficiently store binary data
as JSON, at the expense of breaking compatibility with most JSON decoders.
The main use for `utf8` is to force the output to not contain characters with values > 127, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

=head1 BACKWARD INCOMPATIBILITY

Since version 2.90, stringification (and string comparison) for `JSON::true` and `JSON::false` has not been overloaded. It shouldn't matter as long as you treat them as boolean values, but a code that expects they are stringified as "true" or "false" doesn't work as you have expected any more.

    if (JSON::true eq 'true') {  # now fails
      print "The result is $JSON::true now."; # => The result is 1 now.
    }

And now these boolean values don't inherit JSON::Boolean, either. When you need to test a value is a JSON boolean value or not, use `JSON::is_bool` function, instead of testing the value inherits a particular boolean class or not.

=head1 BUGS

Please report bugs on backend selection and additional features this module provides to RT or GitHub issues for this module:

=over 4

=item https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON

=item https://github.com/makamaka/JSON/issues

=back

Please report bugs and feature requests on decoding/encoding and boolean behaviors to the author of the backend module you are using.

=head1 SEE ALSO

L<JSON::XS>, L<Cpanel::JSON::XS>, L<JSON::PP> for backends.
L<JSON::MaybeXS>, an alternative that prefers Cpanel::JSON::XS.

C<RFC4627>(L<http://www.ietf.org/rfc/rfc4627.txt>)

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

The release of this new version owes to the courtesy of Marc Lehmann.

=head1 COPYRIGHT AND LICENSE

Copyright 2005-2013 by Makamaka Hannyaharamitu

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/1197361778_1630042302.22/0/libjson-perl-2-97001-orig-1-tar-gz/JSON-2.97001/lib/JSON.pm

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

NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS

use JSON; # imports encode_json, decode_json, to_json and from_json.

# simple and fast interfaces (expect/generate UTF-8)

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

# OO-interface

$json = JSON->new->allow_nonref;

$json_text   = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing

VERSION

2.93
DESCRIPTION
This module is a thin wrapper for JSON::XS-compatible modules with a few additional features. All the backend modules convert a Perl data structure to a JSON text as of RFC4627 (which we know is obsolete but we still stick to; see below for an option to support part of RFC7159) and vice versa. This module uses JSON::XS by default, and when JSON::XS is not available, this module falls back on JSON::PP, which is in the Perl core since 5.14. If JSON::PP is not available either, this module then falls back on JSON::backportPP (which is actually JSON::PP in a different .pm file) bundled in the same distribution as this module. You can also explicitly specify to use Cpanel::JSON::XS, a fork of JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between them, including extra features that other modules don't support, but as long as you use only common features (most important ones are described below), migration from backend to backend should be reasonably easy. For details, see each backend module you use.

CHOOSING BACKEND
This module respects an environmental variable called "PERL_JSON_BACKEND" when it decides a backend module to use. If this environmental variable is not set, it tries to load JSON::XS, and if JSON::XS is not available, it falls back on JSON::PP, and then JSON::backportPP if JSON::PP is not available either.

If you always don't want it to fall back on pure perl modules, set the variable like this ("export" may be "setenv", "set" and the likes, depending on your environment):

> export PERL_JSON_BACKEND=JSON::XS

If you prefer Cpanel::JSON::XS to JSON::XS, then:

> export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::PP

You may also want to set this variable at the top of your test files, in order not to be bothered with incompatibilities between backends (you need to wrap this in "BEGIN", and set before actually "use"-ing JSON module, as it decides its backend as soon as it's loaded):

BEGIN { $ENV{PERL_JSON_BACKEND}=JSON::backportPP; }
use JSON;

USING OPTIONAL FEATURES
There are a few options you can set when you "use" this module:

-support_by_pp
BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

use JSON -support_by_pp;

my $json = JSON->new;
# escape_slash is for JSON::PP only.
$json->allow_nonref->escape_slash->encode("/");

With this option, this module loads its pure perl backend along with its XS backend (if available), and lets the XS backend to watch if you set a flag only JSON::PP supports. When you do, the internal JSON::XS object is replaced with a newly created JSON::PP object with the setting copied from the XS object, so that you can use JSON::PP flags (and its slower "decode"/"encode" methods) from then on. In other words, this is not something that allows you to hook JSON::XS to change its behavior while keeping its speed. JSON::XS and JSON::PP objects are quite different (JSON::XS object is a blessed scalar reference, while JSON::PP object is a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not to use this option and just to use JSON::PP explicitly when you need JSON::PP features.

-convert_blessed_universally
use JSON -convert_blessed_universally;

my $json = JSON->new->allow_nonref->convert_blessed;
my $object = bless {foo => 'bar'}, 'Foo';
$json->encode($object); # => {"foo":"bar"}

JSON::XS-compatible backend modules don't encode blessed objects by default (except for their boolean values, which are typically blessed JSON::PP::Boolean objects). If you need to encode a data structure that may contain objects, you usually need to look into the structure and replace objects with alternative non-blessed values, or enable "convert_blessed" and provide a "TO_JSON" method for each object's (base) class that may be found in the structure, in order to let the methods replace the objects with whatever scalar values the methods return.

If you need to serialise data structures that may contain arbitrary objects, it's probably better to use other
serialisers (such as Sereal or Storable for example), but if
you do want to use this module for that purpose,
"-convert_blessed_universally" option may help, which tweaks
"encode" method of the backend to install "UNIVERSAL::TO_JSON"
method (locally) before encoding, so that all the objects that
don't have their own "TO_JSON" method can fall back on the
method in the "UNIVERSAL" namespace. Note that you still need
to enable "convert_blessed" flag to actually encode objects in
a data structure, and "UNIVERSAL::TO_JSON" method installed by
this option only converts blessed hash/array references into
their unblessed clone (including private keys/values that are
not supposed to be exposed). Other blessed references will be
converted into null.

This feature is experimental and may be removed in the future.

-no_export
When you don't want to import functional interfaces from a
module, you usually supply "()" to its "use" statement.

use JSON (); # no functional interfaces

If you don't want to import functional interfaces, but you
also want to use any of the above options, add "-no_export" to
the option list.

use JSON -support_by_pp, -no_export;

FUNCTIONAL INTERFACE
This section is taken from JSON::XS. "encode_json" and
"decode_json" are exported by default.

This module also exports "to_json" and "from_json" for backward
compatibility. These are slower, and may expect/generate different
stuff from what "encode_json" and "decode_json" do, depending on
their options. It's better just to use Object-Oriented interfaces
than using these two functions.

encode_json

$json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary
string (that is, the string contains octets only). Croaks on
error.

This function call is functionally identical to:
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$json_text = JSON->new->utf8->encode($perl_scalar)

Except being faster.

decode_json
  $perl_scalar = decode_json $json_text

The opposite of "encode_json": expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference. Croaks on error.

This function call is functionally identical to:

  $perl_scalar = JSON->new->utf8->decode($json_text)

Except being faster.

to_json
  $json_text = to_json($perl_scalar[, $optional_hashref])

Converts the given Perl data structure to a Unicode string by default. Croaks on error.

Basically, this function call is functionally identical to:

  $json_text = JSON->new->encode($perl_scalar)

Except being slower.

You can pass an optional hash reference to modify its behavior, but that may change what "to_json" expects/generates (see "ENCODING/CODESET FLAG NOTES" for details).

  $json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})
  #=> JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)

from_json
  $perl_scalar = from_json($json_text[, $optional_hashref])

The opposite of "to_json": expects a Unicode string and tries to parse it, returning the resulting reference. Croaks on error.

Basically, this function call is functionally identical to:

  $perl_scalar = JSON->new->decode($json_text)

You can pass an optional hash reference to modify its behavior, but that may change what "from_json" expects/generates (see
$perl_scalar = from_json($json_text, {utf8 => 1})
# => JSON->new->utf8(1)->decode($json_text)

JSON::is_bool
$is_boolean = JSON::is_bool($scalar)

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like 1 and 0 respectively and are also used to represent JSON "true" and "false" in Perl strings.

See MAPPING, below, for more information on how JSON values are mapped to Perl.

COMMON OBJECT-ORIENTED INTERFACE
This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or decoding style, within the limits of supported formats.

new
$json = JSON->new

Creates a new JSON::XS-compatible backend object that can be used to de/encode JSON strings. All boolean flags described below are by default *disabled*.

The mutators for flags all return the backend object again and thus calls can be chained:

my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}

ascii
$json = $json->ascii([$enable])
$enabled = $json->get_ascii

If $enable is true (or missing), then the "encode" method will not generate characters outside the code range 0..127 (which is ASCII). Any Unicode characters outside that range will be escaped using either a single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting encoded JSON text can be treated as a native Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string, or any other superset of ASCII.
If $enable is false, then the "encode" method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

See also the section *ENCODING/CODESET FLAG NOTES* later in this document.

The main use for this flag is to produce JSON texts that can be transmitted over a 7-bit channel, as the encoded JSON texts will not contain any 8 bit characters.

```
JSON->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\udc01"]
```

latin1

```latex
$json = $json->latin1([$enable])
$enabled = $json->get_latin1
```

If $enable is true (or missing), then the "encode" method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255. The resulting string can be treated as a latin1-encoded JSON text or a native Unicode string. The "decode" method will not be affected in any way by this flag, as "decode" by default expects Unicode, which is a strict superset of latin1.

If $enable is false, then the "encode" method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section *ENCODING/CODESET FLAG NOTES* later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking to other JSON encoders/decoders.

```
JSON->new->latin1->encode ("\x{89}\x{abc}")
=> ["\x{89}\u0abc"]  # (perl syntax, \u0abc escaped, U+89 not)
```

utf8
$json = $json->utf8($enable)

$enabled = $json->get_utf8

If $enable is true (or missing), then the "encode" method will encode the JSON result into UTF-8, as required by many protocols, while the "decode" method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bytewise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If $enable is false, then the "encode" method will return the JSON string as a (non-encoded) Unicode string, while "decode" expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section *ENCODING/CODESET FLAG NOTES* later in this document.

Example, output UTF-16BE-encoded JSON:

use Encode;
$jsontext = encode "UTF-16BE", JSON->new->encode ($object);

Example, decode UTF-32LE-encoded JSON:

use Encode;
$object = JSON->new->decode (decode "UTF-32LE", $jsontext);

pretty
$json = $json->pretty($enable)

This enables (or disables) all of the "indent", "space_before" and "space_after" (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

indent
$json = $json->indent($enable)

$enabled = $json->get_indent

If $enable is true (or missing), then the "encode" method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.
If $enable is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any "newlines".

This setting has no effect when decoding JSON texts.

space_before

$javax = $javax->space_before([$enable])

$enabled = $javax->get_space_before

If $enable is true (or missing), then the "encode" method will add an extra optional space before the ":" separating keys from values in JSON objects.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts. You will also most likely combine this setting with "space_after".

Example, space_before enabled, space_after and indent disabled:

{"key": "value"}

space_after

$javax = $javax->space_after([$enable])

$enabled = $javax->get_space_after

If $enable is true (or missing), then the "encode" method will add an extra optional space after the ":" separating keys from values in JSON objects and extra whitespace after the "," separating key-value pairs and array members.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

{"key": "value"}

relaxed

$javax = $javax->relaxed([$enable])

$enabled = $javax->get_relaxed
If $enable$ is true (or missing), then "decode" will accept some extensions to normal JSON syntax (see below). "encode" will not be affected in anyway. *Be aware that this option makes you accept invalid JSON texts as if they were valid!* I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If $enable$ is false (the default), then "decode" will only accept valid JSON texts.

Currently accepted extensions are:

* list items can have an end-comma

   JSON *separates* array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

   ```
   [1, 2, <- this comma not normally allowed
   ]
   ```

   ```
   "k1": "v1",
   "k2": "v2", <- this comma not normally allowed
   ```

* shell-style '#'-comments

   Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

   ```
   [1, # this comment not allowed in JSON
   # neither this one...
   ]
   ```

```
canonical
$json = $json->canonical([$enable])
```

$enabled = $json->get_canonical

If $enable$ is true (or missing), then the "encode" method will
output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If $enable is false, then the "encode" method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script, and can change even within the same run from 5.18 onwards).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

allow_nonref

$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

If $enable is true (or missing), then the "encode" method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, "decode" will accept those JSON values instead of croaking.

If $enable is false, then the "encode" method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, "decode" will croak if given something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value with enabled "allow_nonref", resulting in an invalid JSON text:

    JSON->new->allow_nonref->encode("Hello, World!")
=> "Hello, World!"

allow_unknown

$json = $json->allow_unknown([$enable])

$enabled = $json->get_allow_unknown

If $enable is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are
handled separately by \texttt{c<allow\_nonref>}

If \texttt{$enable} is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

\texttt{allow\_blessed}

\begin{verbatim}
$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed
\end{verbatim}

See "OBJECT SERIALISATION" for details.

If \texttt{$enable} is true (or missing), then the "encode" method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON "null" value is encoded instead of the object.

If \texttt{$enable} is false (the default), then "encode" will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on "decode".

\texttt{convert\_blessed}

\begin{verbatim}
$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed
\end{verbatim}

See "OBJECT SERIALISATION" for details.

If \texttt{$enable} is true (or missing), then "encode", upon encountering a blessed object, will check for the availability of the "TO\_JSON" method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object.

The "TO\_JSON" method may safely call \texttt{die} if it wants. If "TO\_JSON" returns other blessed objects, those will be handled in the same way. "TO\_JSON" must take care of not causing an endless recursion cycle (== crash) in this case. The name of "TO\_JSON" was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with any "to\_json" function or method.
If $enable is false (the default), then "encode" will not consider this type of conversion.

This setting has no effect on "decode".

filter_json_object

$json = $json->filter_json_object($coderef)

When $coderef is specified, it will be called from "decode" each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: *not* "undef", which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When $coderef is omitted or undefined, any existing callback will be removed and "decode" will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

my $js = JSON->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('[{}]'); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2}');

filter_json_single_key_object

$json = $json->filter_json_single_key_object($key => $coderef)

Works remotely similar to "filter_json_object", but is only called for JSON objects having a single key named $key.

This $coderef is called before the one specified via "filter_json_object", if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even "undef" but the empty list), the callback from "filter_json_object" will be called next, as if no single-key callback were specified.

If $coderef is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the
"filter_json_object" one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "__class_whatever__", or "__$dollars_are_rarely_used__$" or "}ugly_brace_placement", or even things like "__class_md5sum(classname)__", to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form "{ "__widget__" => <id> }" into the corresponding $WIDGET{<id>} object:

```perl
# return whatever is in $WIDGET[5]:

JSON
 ->new
 ->filter_json_single_key_object (__widget__ => sub {
   $WIDGET{ $_[0] }
 })
 ->decode ('"__widget__": 5')
```

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:

```perl
sub WidgetBase::TO_JSON {
  my ($self) = @_;

  unless ($self->{id}) {
    $self->{id} = ..get_some_id..;
    $WIDGET{$self->{id}} = $self;
  }

  { __widget__ => $self->{id} }
}
```

max_depth

```perl
$json = $json->max_depth([$maximum_nesting_depth])
$max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default 512) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the
encoder needs to traverse to reach a given point or the number of "{" or "[" characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

max_size

$max = $json->max_size([$maximum_string_size])

$max = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is 0, meaning no limit. When "decode" is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on "encode" (yet).

If no argument is given, the limit check will be deactivated (same as when 0 is specified).

encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

decode

$perl_scalar = $json->decode($json_text)

The opposite of "encode": expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the "decode" method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.
The following methods are for this module only.

backend
   $backend = $json->backend

Since 2.92, "backend" method returns an abstract backend module used currently, which should be JSON::Backend::XS (which inherits JSON::XS or Cpanel::JSON::XS), or JSON::Backend::PP (which inherits JSON::PP), not to monkey-patch the actual backend module globally.

If you need to know what is used actually, use "isa", instead of string comparison.

is-xs
   $boolean = $json->is_xs

Returns true if the backend inherits JSON::XS or Cpanel::JSON::XS.

is-pp
   $boolean = $json->is_pp

Returns true if the backend inherits JSON::PP.

property
   $settings = $json->property()

Returns a reference to a hash that holds all the common flag settings.

   $json = $json->property('utf8' => 1)
   $value = $json->property('utf8') # 1

You can use this to get/set a value of a particular flag.

INCREMENTAL PARSING
This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using "decode_prefix" to
see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

This module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won’t stop as early as the full parser, for example, it doesn’t detect mismatched parentheses. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. "max_size") to ensure the parser will stop parsing in the presence if syntax errors.

The following methods implement this incremental parser.

incr_parse
$parse->incr_parse( [$string] ) # void context

$obj_or_undef = $parse->incr_parse( [$string] ) # scalar context

@obj_or_empty = $parse->incr_parse( [$string] ) # list context

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If $string is given, then this string is appended to the already existing JSON fragment stored in the $parse object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly *one* JSON object. If that is successful, it will return this object, otherwise it will return "undef". If there is a parse error, this method will croak just as "decode" would do (one can then use "incr_skip" to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.
Example: Parse some JSON arrays/objects in a given string and
return them.

```perl
my @objs = JSON->new->incr_parse ("[5][7][1,2]");
```

**incr_text**

```perl
$lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an
lvalue, that is, you can manipulate it. This *only* works when a
preceding call to "incr_parse" in *scalar context* successfully
returned an object. Under all other circumstances you must not
call this function (I mean it. although in simple tests it might
actually work, it *will* fail under real world conditions). As a
special exception, you can also call this method before having
parsed anything.

That means you can only use this function to look at or manipulate
text before or after complete JSON objects, not while the parser
is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text
after a JSON object or b) parsing multiple JSON objects separated
by non-JSON text (such as commas).

**incr_skip**

```perl
$json->incr_skip
```

This will reset the state of the incremental parser and will
remove the parsed text from the input buffer so far. This is
useful after "incr_parse" died, in which case the input buffer and
incremental parser state is left unchanged, to skip the text
parsed so far and to reset the parse state.

The difference to "incr_reset" is that only text until the parse
error occurred is removed.

**incr_reset**

```perl
$json->incr_reset
```

This completely resets the incremental parser, that is, after this
call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and
want to ignore any trailing data, which means you have to reset
the parser after each successful decode.
MAPPING
Most of this section is also taken from JSON::XS.

This section describes how the backend modules map Perl values to JSON values and vice versa. These mappings are designed to "do the right thing" in most circumstances automatically, preserving round-tripping characteristics (what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions, lowercase "perl" refers to the Perl interpreter, while uppercase "Perl" refers to the abstract Perl language itself.

JSON -> PERL

object
A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

array
A JSON array becomes a reference to an array in Perl.

string
A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

number
A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, this module will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still
be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, this module only guarantees precision up to but not including the least significant bit.

true, false
These JSON atoms become "JSON::true" and "JSON::false", respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check whether a scalar is a JSON boolean by using the "JSON::is_bool" function.

null
A JSON null atom becomes "undef" in Perl.

shell-style comments ("# *text*"")
As a nonstandard extension to the JSON syntax that is enabled by the "relaxed" setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

PERL -> JSON
The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

hash references
Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. This module can optionally sort the hash keys (determined by the *canonical* flag), so the same data structure will serialise to the same JSON text (given same settings and version of the same backend), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

array references
Perl array references become JSON arrays.

other references
Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers 0 and 1, which get turned into "false" and "true" atoms in JSON. You can also use "JSON::false" and "JSON::true" to improve readability.
encode_json [0, JSON::true]  # yields [false,true]

**JSON::true, JSON::false, JSON::null**

These special values become JSON true and JSON false values, respectively. You can also use "1" and "0" directly if you want.

**blessed objects**

Blessed objects are not directly representable in JSON, but "JSON::XS" allows various ways of handling objects. See "OBJECT SERIALISATION", below, for details.

**simple scalars**

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: this module will encode undefined scalars as JSON "null" values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

```
# dump as number
encode_json [-3.0e17]  # yields [-3e+17]
my $value = 5; encode_json [$value]  # yields [5]

# used as string, so dump as string
print $value;
encode_json [$value]  # yields ["5"]

# undef becomes null
encode_json [undef]  # yields [null]
```

You can force the type to be a string by stringifying it:

```
my $x = 3.1;  # some variable containing a number
"$x";  # stringified
$x .= ";  # another, more awkward way to stringify
print $x;  # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
my $x = "3";  # some variable containing a string
$x += 0;  # numify it, ensuring it will be dumped as a number
$x *= 1;  # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure, ways. Tell me if you need this capability (but don't forget to explain why it's needed :).
Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

OBJECT SERIALISATION
As for Perl objects, this module only supports a pure JSON representation (without the ability to deserialise the object automatically again).

SERIALISATION
What happens when this module encounters a Perl object depends on the "allow_blessed" and "convert_blessed" settings, which are used in this order:

1. "convert_blessed" is enabled and the object has a "TO_JSON" method.
   In this case, the "TO_JSON" method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

   For example, the following "TO_JSON" method will convert all URI objects to JSON strings when serialised. The fact that these values originally were URI objects is lost.

   ```perlu
   sub URI::TO_JSON {
     my ($uri) = @_;
     $uri->as_string
   }
   ```

2. "allow_blessed" is enabled.
   The object will be serialised as a JSON null value.

3. none of the above
   If none of the settings are enabled or the respective methods are missing, this module throws an exception.

ENCODING/CODESET FLAG NOTES
This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify encodings or codesets - "utf8", "latin1" and "ascii". There seems to be some confusion on what these do, so here is a
short comparison:

"utf8" controls whether the JSON text created by "encode" (and expected by "decode") is UTF-8 encoded or not, while "latin1" and "ascii" only control whether "encode" escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to "encode" and "decode", that is, texts encoded with any combination of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and *encodes* them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and ASCII are both codesets *and* encodings at the same time, which can be confusing.

"utf8" flag disabled
When "utf8" is disabled (the default), then "encode"/"decode" generate and expect Unicode strings, that is, characters with high ordinal Unicode values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

"utf8" flag enabled
If the "utf8"-flag is enabled, "encode"/"decode" will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The "utf8" flag therefore switches between two modes: disabled
means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

"latin1" or "ascii" flags enabled
With "latin1" (or "ascii") enabled, "encode" will escape characters with ordinal values > 255 (> 127 with "ascii") and encode the remaining characters as specified by the "utf8" flag.

If "utf8" is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If "utf8" is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using "\uXXXX" then before.

Note that ISO-8859-1-encoded strings are not compatible with UTF-8 encoding, while ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 *codeset* being a subset of Unicode), while ASCII is.

Surprisingly, "decode" will ignore these flags and so treat all input values as governed by the "utf8" flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither "latin1" nor "ascii" are incompatible with the "utf8" flag - they only govern when the JSON output engine escapes a character or not.

The main use for "latin1" is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for "ascii" is to force the output to not contain characters with values > 127, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use.
in the world.

BACKWARD INCOMPATIBILITY
Since version 2.90, stringification (and string comparison) for
"JSON::true" and "JSON::false" has not been overloaded. It
shouldn't matter as long as you treat them as boolean values, but
a code that expects they are stringified as "true" or "false"
doesn't work as you have expected any more.

    if (JSON::true eq 'true') {  # now fails

        print "The result is $JSON::true now."; # => The result is 1 now.

    }

And now these boolean values don't inherit JSON::Boolean, either.
When you need to test a value is a JSON boolean value or not, use
"JSON::is_bool" function, instead of testing the value inherits a
particular boolean class or not.

BUGS
Please report bugs on backend selection and additional features
this module provides to RT or GitHub issues for this module:

    https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON
    https://github.com/makamaka/JSON/issues

Please report bugs and feature requests on decoding/encoding and
boolean behaviors to the author of the backend module you are
using.

SEE ALSO
JSON::XS, Cpanel::JSON::XS, JSON::PP for backends.

JSON::MaybeXS, an alternative that prefers Cpanel::JSON::XS.

"RFC4627"(<http://www.ietf.org/rfc/rfc4627.txt>)

AUTHOR
Makamaka Hannyaharamitu, <makamaka[at]cpan.org>

JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

The release of this new version owes to the courtesy of Marc
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=head1 NAME

JSON::PP56 - Helper module in using JSON::PP in Perl 5.6

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

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---

abstract: 'JSON (JavaScript Object Notation) encoder/decoder'
author:
  · 'Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>'
build Requires:
  ExtUtils::MakeMaker: '0'
configure Requires:
  ExtUtils::MakeMaker: '0'
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
1.20 public-suffix 20180223.1310-1

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1.21 benbjohnson-clock 1.0.3

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1.22 aop-alliance 2.5.0-b32

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```

### 1.23 c2h5oh-datasize 0.0.0-20200112174442-28bbd4740fee

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### 1.24 fiber-local 1.0.0

#### 1.24.1 Available under license:

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# Fiber::Local

A module to simplify fiber-local state.

[![Development Status](https://github.com/socketry/fiber-...
## Features

- Easily access fiber-local state from a fiber.
- Default to shared thread-local state.

## Installation

```bash
$ bundle add fiber-local
```

## Usage

In your own class, e.g. `Logger`:

```ruby
class Logger
extend Fiber::Local

def initialize
  @buffer = []
end

def log(*arguments)
  @buffer << arguments
end
end
```

Now, instead of instantiating your cache `LOGGER = Logger.new`, use `Logger.instance`. It will return a thread-local instance.

```ruby
Thread.new do
  Logger.instance
# => #<Logger:0x000055a14ec6be80>
end

Thread.new do
  Logger.instance
# => #<Logger:0x000055a14ec597d0>
end
```

In cases where you have job per fiber or request per fiber, you might want to collect all log output for a specific fiber, you can do the following:
```
```ruby
Logger.instance
# => #<Logger:0x000055a14ec6be80>

Fiber.new do
  Logger.instance = Logger.new
  #=> #<Logger:0x000055a14ec597d0>
end
```

## Contributing

We welcome contributions to this project.

1. Fork it.
2. Create your feature branch (`git checkout -b my-new-feature`).
3. Commit your changes (`git commit -am 'Add some feature'`).
4. Push to the branch (`git push origin my-new-feature`).
5. Create new Pull Request.

## See Also

- [thread-local](https://github.com/socketry/thread-local)  Strictly thread-local variables.

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1.26 http-parser 2.9.4

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1.27 go-autorest-logging 0.2.0

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1.29 python3-psycopg2 2.7.4-1

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1.38 github.com/projectcalico/go-yaml-wrapper v0.0.0-20191112210931-090425220c54

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1.43 python-pam libpam-modules_1.1.8-3.6ubuntu2

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>
Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}

+int display_legal(pam_handle_t *pamh)
+{
+  int retval = PAM_IGNORE, rc;
+  char *user = NULL;
+  char *dir = NULL;
+  char *flag = NULL;
+  struct passwd *pwd = NULL;
+  struct stat s;
+  int f;
+  /* Get the user name to determine if we need to print the disclaimer */
+  rc = pam_get_item(pamh, PAM_USER, &user);
+  if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+  {
+    PAM_MODUTIL_DEF_PRIVS(privs);
+
+    /* Get the password entry */
+    pwd = pam_modutil_getpwnam (pamh, user);
+    if (pwd != NULL)
+    {
+      if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+        pam_syslog(pamh, LOG_ERR,
+           "Unable to change UID to %d temporarily\n",
+           pwd->pw_uid);
+        retval = PAM_SESSION_ERR;
+        goto finished;
+      }
+
+      if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+        goto finished;
+      if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+        goto finished;
+
+      if (stat(flag, &s) != 0)
+      {
+        display_file(pamh, "/etc/legal");
+        mkdir(dir, 0700);
+        f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+           S_IRUSR|S_IWUSR|S_IREGRP|S_IROTH);
+        mkdir(dir, 0700);
+        f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+           S_IRUSR|S_IWUSR|S_IREGRP|S_IROTH);
+        }
+            if (f>=0) close(f);
+        }
+
+    finished:
+        if (pam_modutil_regain_priv(pamh, &privs)) {
+            pam_syslog(pamh, LOG_ERR,
+                       "Unable to change UID back to %d\n", privs.old_uid);
+            retval = PAM_SESSION_ERR;
+        }
+
+        _pam_drop(flag);
+        _pam_drop(dir);
+    }
+    return retval;
+
+}
+
+PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);
+
    /* Display the legal disclaimer only if necessary */
    retval = display_legal(pamh);
    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.44 grub2-unsigned 2.04-1ubuntu44.1.2

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1.52 systemd 237 3ubuntu10.46

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1.53 os-tmpdir 1.0.2

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1.54 ansi-styles 4.3.0

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1.55 jackson-databind 2.9.10.8

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1.56 exporter-ocagent 0.6.0

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1.57 inf 0.9.1

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1.58 lsb 9.20170808ubuntu1

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1.59 asn1crypto 0.24.0-1

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1.60 jaeger-client-go 2.25.0+incompatible

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1.78 sigs-k8s-io-yaml v1.1.0

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Apache-Test was originally developed by:

Doug MacEachern <dougm@cpan.org>

Now maintained by:

Fred Moyer <fred@redhotpenguin.com>
Philip M. Gollucci <pgollucci@p6m7g8.com>

with contributions from the following helpful people
(in alphabetical order):

Alessandro Forghieri <Alessandro.Forghieri@think3.com>
David Wheeler <david@kineticode.com>
Gary Benson <gbenson@redhat.com>
Geoffrey Young <geoff@modperlcookbook.org>
Ken Williams <ken@forum.swarthmore.edu>
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This is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language. See
the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE
functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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University of Illinois at Urbana-Champaign
605 E. Springfield, Champaign, IL 61820
httpd@ncsa.uiuc.edu

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md5.c: NCSA HTTPd code which uses the md5c.c RSA Code

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu). This version includes the mapping algorithms found in version 1.3 of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server. The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.

New Configuration directives:
- ImapMenu {none, formatted, semiformatted, unformatted}
- ImapDefault {error, nocontent, referer, menu, URL}
- ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):
- Old: directive URL [x,y ...]
- New: directive URL "Menu text" [x,y ...]
  or: directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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Anthony Green <green@redhat.com>
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<tr>
<td>KCM credential cache.</td>
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<td>HDB LDAP backend.</td>
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rijndael-alg-fst.c

version 3.0 (December 2000)

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

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

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
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1.91 libutempter 1.1.6 3
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1.92 go-runtime 1.14.7

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Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
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Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Mitha <adam.mitha@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
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Adam Williams <pwnfactory@gmail.com>
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Adarsh Ravichandran <adarshravichandran91@gmail.com>
Adel Rodriguez <adel.rodriguez@leftfieldlabs.com>
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Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
Adrien Petel <peteladrien@gmail.com>
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Alexey Borzenkov <snaury@gmail.com>
Alexey Naidonov <alexey.naidonov@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexey Semenyuk <alexsemenyuk88@gmail.com>
Alexey Vilenskiy <bynovhack@gmail.com>
Alexis Hildebrandt <surryhill@gmail.com>
Asim Shankar <asimshankar@gmail.com>
Assel Meher <asselmeher@gmail.com>
Atin Malaviya <amalaviy@akamai.com>
Ato Araki <ato.araki@gmail.com>
Atsushi Toyama <atsushi.tohyama.160.333@gmail.com>
Audrey Lim <audreylh@gmail.com>
Audrius Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Variatus <varialus@gmail.com>
Aurlien Rainone <aurelien.rainone@gmail.com>
Aurlio A. Heckert <aurium@gmail.com>
Austin Clements <austin@gmail.com> <aclements@csail.mit.edu>
Avi Flax <avi@timehop.com>
Aviv Klasquin Komissar <avivklas@gmail.com>
awaw fumin <awawfumin@gmail.com>
Awn Umar <awn@cryptolosophy.io>
Axel Wagner <axel.wagner.hh@googlemail.com>
Ayan George <ayan@ayan.net>
Ayanamist Yang <ayanamist@gmail.com>
Ayke van Laethem <aykevanlaethem@gmail.com>
Aymeric Jhanne <aymerick@jehanne.org>
Ayzat Sadykov <ayzat.ziko.93@gmail.com>
Azat Kaumov <kaumov.a.r@gmail.com>
Baiju Muthukadan <baiju.m.mail@gmail.com>
Balaram Makam <bmakam.qdt@qualcommdatacenter.com>
Balazs Lecz <leczb@gmail.com>
Baokun Lee <nototon@gmail.com> <bk@golangcn.org>
Barnaby Keene <accounts@southcla.ws>
Bartosz Grzybowski <melkorm@gmail.com>
Bartosz Oler <brtsz@gmail.com>
Bassam Ojeil <bojeil@gmail.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Cartwright-Cox <Ben@Benjojo.co.uk>
Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Haines <bhainesva@gmail.com>
Ben Hoyt <benhoyt@gmail.com>
Ben Hutchings <ben.hutchings@essensium.com>
Ben Kraft <benkraft@khanacademy.org>
Ben Laurie <ben@links.org> <benl@google.com>
Ben Lubar <ben.lubar@gmail.com>
Ben Lynn <benlynn@gmail.com>
Ben Olive <sionide21@gmail.com>
Ben Schwartz <bemasc@google.com>
Ben Shi <powerman1st@163.com>
Ben Toews <mastahyeti@gmail.com>
Benjamin Barenblat <bbaren@gmail.com>
Chris Le Roy <brompwnie@users.noreply.github.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris Marchesi <chrism@vanclueverttech.com>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrsmith@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Taylor <taylorza@gmail.com>
Chris Waldon <christopher.waldon.dev@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christian Muehlhaeuser <muesli@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christian Svensson <blue@cmd.nu>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Hlubek <christopher.hlubek@networkteam.com>
Christopher Koch <chrisko@google.com>
Christopher Loessl <cloessl+github@gmail.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@google.com>
Christopher Thomas <53317512+chrissthamas@users.noreply.github.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <chisty@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clment Chigot <clement.chigot@atos.net>
Clement Skau <clementskaugmail.com>
Clint J. Edwards <clint.j.edwards@gmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Arnott <colin@urandom.co.uk>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivelpenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
GitHub User @as (8127015) <as.utf8@gmail.com>
GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <aditia8@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cch123 (384546) <buac.cch@gmail.com>
GitHub User @chainhelen (7046329) <chainhelen@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @Claus (10056928) <Claus@live.de>
GitHub User @cncai (23520240) <lycalvin@qq.com>
GitHub User @DQNEO (188741) <dqeoo@gmail.com>
GitHub User @Dreamacro (8615343) <chuanian@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @EndlessCheng (7086966) <lolicon@qq.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @fatedier (7346661) <fatedier@gmail.com>
GitHub User @frennkie (6499251) <mail@rhab.de>
GitHub User @geedchin (11672310) <geedchin@gmail.com>
GitHub User @GrigoriyMikhalkin (3637857) <grigoriymikhalkin@gmail.com>
GitHub User @hengwu0 (41297446) <hengwu0@users.noreply.github.com>
GitHub User @hitzhangjie (3725760) <hit.zhangjie@gmail.com>
GitHub User @hpko (13887251) <whaibin01@hotmail.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jimiaoluo (39730824) <jimiaoluo@icloud.com>
GitHub User @jopbrown (6345470) <msshane2008@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @komisan19 (18901496) <komiyama6219@gmail.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @lhl2617 (33488131) <l.h.lee2617@gmail.com>
GitHub User @linguohua (3434367) <ljghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @markruler (38225900) <csu0414@gmail.com>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @mccinncim (21333876) <mccinncim@gmail.com>
GitHub User @mkbishere (224617) <mkbishere@users.noreply.github.com>
GitHub User @n Luca50218 (40682920) <n.Lu@icloud.com>
GitHub User @OlgaVPetrova (44112727) <OVPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopupokutuna@gmail.com>
GitHub User @povsister (11040951) <pov@mahou-shoujo.moe>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @qcrao (7698088) <qcrao91@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @SataQiu (9354727) <shidaqiu2018@gmail.com>
GitHub User @shogo- ma (9860598) <Choroma194@gmail.com>
GitHub User @sivchari (55221074) <shibuuuu5@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @soolaugust (10558124) <soolaugust@gmail.com>
GitHub User @surechen (7249331) <surechen17@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uji (49834542) <ujiprog@gmail.com>
GitHub User @unbyte (5772358) <i@shangyes.net>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @wolf1996 (5901874) <ksgiv37@gmail.com>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @zikaeoh (48577114) <zikaeoh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaas <gordon.klaas@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Grace Han <grace503@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Green Lightning <GreenLightning.git@googlemail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@google.com>
Greg Thelen <gthelen@google.com>
Greg Ward <greg@gerg.ca>
Grgoire Delattre <grgoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Gregory Petrosyan <gregory.petrosyan@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guilherme Souza <32180229+gqgs@users.noreply.github.com>
Guillaume J. Charmes <guillaume@charmes.net>
Guillaume Sottas <guillamesottas@gmail.com>
Jonathan Swinney <jswinney@amazon.com>
Jonathan Wills <runningwild@gmail.com>
Jonathon Lacher <jonathon.lacher@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kieffe <ikojba@gmail.com> <joop@kieffe.net>
Jordan Christiansen <xordspar0@gmail.com>
Jordan Krage <jmankk88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Liggitt <liggitt@google.com>
Jordan Rhee <jordanrh@microsoft.com>
Jordan Rupprecht <rupprecht@google.com>
Jordi Martin <jordimartin@gmail.com>
Jorge Araya <jorgejavieran@yahoo.com.mx>
Jorge L. Fatta <jorge.fatta@auth0.com>
Jos Visser <josv@gmail.com>
Josa Gesell <josa@gesell.me>
Jose Luis Vquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Joseph Morag <sefin96@gmail.com>
Josh Baum <joshbaum@google.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrhh@joshh.co.uk>
Josh Rickmar <rick@companyzero.com>
Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Bezaelel Abednego <joshua.bezaelel@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jcjoshuachase@gmail.com>
Joshua Crowgey <jcrowgey@uw.edu>
Joshua Harshman <joshgreyhat@gmail.com>
Joshua M. Clulow <josh.clulow@joyent.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@google.com>
JT Olds <jtolds@xnet5.com>
JT Olio <hello@jtolio.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebperreira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@gmail.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmovj@google.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julian Tibble <julian.tibble@gmail.com>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kaufmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julien Tant <julien@craftyx.fr>
Julio Montes <julio.montes@intel.com>
Jun Zhang <jim.zoumo@gmail.com>
Junchen Li <junchen.li@arm.com>
Junda Liu <junda@celer.network>
Jungho Ahn <jhahn@celer.network>
Junya Hayashi <ledmonster@gmail.com>
Juraj Sukop <sukop@users.noreply.github.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <igracenin@gmail.com>
Justin Li <git@justinli.net>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justyntemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Dong <dokia2357@gmail.com>
Kai Lke <kai@kinvolk.io>
Kai Trukenmiller <ktyc78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kalman Bekesi <kalmanb@google.com>
Kamal Aboul-Hosn <aboulhosn@gmail.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukangustc@gmail.com>
Kanta Ebihara <kantaebihara@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karoly Negyesi <chx1975@gmail.com>
Karsten Khler <karsten.koehler95@gmail.com>
Karthik Nayak <karthik.188@gmail.com>
Kashav Madan <kshvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Katharine Berry <ktbry@google.com>
Katie Hockman <katie@golang.org>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>
Kay Zhu <kayzhu@gmail.com>
Kazuhiro Sera <seratch@gmail.com>
KB Sriram <kbsriram@google.com>
Keegan Carruthers-Smith <keegan.csmith@gmail.com>
Kei Son <hey.calmdown@gmail.com>
Keiichi Hirobe <chalance.akane@gmail.com>
Keiji Yoshida <keijiyoishida.mail@gmail.com>
Keisuke Kishimoto <keisuke.kishimoto@gmail.com>
Keith Ball <inflatablewoman@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <kr@xph.us>
Kelly Heller <pestophagous@gmail.com>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Kemal Elmizan <kemalelmizan@gmail.com>
Ken Friedenbach <kenliz@cruizo.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>
Kenichi Tsunokawa <kenichi.tsunokawa@gmail.com>
Kenji Kaneda <kenji.kaneda@gmail.com>
Kenji Yano <kenji.yano@gmail.com>
Kenneth Shaw <kenshaw@gmail.com>
Kenny Grant <kennygrant@gmail.com>
Kensei Nakada <handbomusic@gmail.com>
Kenta Mori <zoncoen@gmail.com>
Kerrollos Magdy <kerrolloz@yahoo.com>
Ketan Parmar <ketanbparmar@gmail.com>
Kevan Swanberg <kevswanberg@gmail.com>
Kevin Albertson <kevin.albertson@mongodb.com>
Kevin Ballard <kevin@sb.org>
Kevin Burke <kev@inburke.com>
Kvin Dunglas <dunglas@gmail.com>
Kevin Gillette <extemporalgenome@gmail.com>
Kevin Herro <kevin109104@gmail.com>
Kevin Kirschke <kev.kirschke@gmail.com>
Kevin Klues <klueska@gmail.com> <klueska@gmail.com>
Kevin Malachowski <chowski@gmail.com>
Kevin Parsons <kevpar@microsoft.com>
Kevin Ruffin <kruffin@gmail.com>
Kevin Vu <kevin.m.vu@gmail.com>
Kevin Zita <bleedgreenandgold@gmail.com>
Keyan Pishdadian <kpishdadian@gmail.com>
Keyuan Li <keyuanli123@gmail.com>
Kezhu Wang <kezhuw@gmail.com>
Khosrow Moossavi <khos2ow@gmail.com>
Kieran Colford <kieran@kcolford.com>
Kim Shrier <kshrier@racktopsystems.com>
Kim Yongbin <kybinz@gmail.com>
Kir Kolyskin <kolyshkin@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luke Shumaker <lukeshu@datawire.io>
Luke Young <bored-engineer@users.noreply.github.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@google.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Mahdi Hosseini Moghaddam <seyed.mahdi.hosseini.moghaddam@ibm.com>
Maia Lee <maia.lee@leftfieldlabs.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishgmail@gmail.com>
Manlio Perillo <manlioperillo@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@gmail.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <nmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanmiquel <marcsanmiquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Gazerro <gazerro@open2b.com>
Marco Hennings <marco.hennings@freiheit.com>
Marcus Weiner <marcus.weiner@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuennerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Dain <mark@markdain.net>
Mark Glines <mark@glines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@google.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mar@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Asquino <martin.asquino@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@gmail.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <moehrmann@gmail.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <antry.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@gmail.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Masaya Watanabe <sfbgwm30@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulys <ngulyas86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapinski <czapkofan@gmail.com>
Matheus Alcantara <matheusssilly97@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Kasurka <masurka@google.com>
Matt Pearring <broskies@google.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@google.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matt.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthias Frei <matthias.frei@inf.ethz.ch>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <mthijs@stdin.nl>
Mattias Appelgren <mattias@appelgren.se>
Mauricio Alvarado <mauricio.alvarado@leftfieldlabs.com>
Max Drosdo.www <g1ran1q@gmail.com>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenik <maxsem.wiki@gmail.com>
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>
Paulo Gomes <paulo.gomes.uk@gmail.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Watson <watsonpavel@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ymkins@gmail.com>
Pawel Knap <pawelknap88@gmail.com>
Pawel Szczur <filemon@google.com>
Pawe Szulik <pawel.szulik@intel.com>
Pei Xian Chee <lucio1991@gmail.com>
Pei-Ming Wu <p408865@gmail.com>
Pen Tree <appletree2479@outlook.com>
Peng Gao <peng.gao.dut@gmail.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Petar Damboulov <petar.ata41987@gmail.com>
Petar Maymounkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@google.com>
Peter Conerly <pconerly@gmail.com>
Peter Dotchev <dotchev@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@uber.com>
Peter Hoyes <pahoyes@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@gmail.com>
Peter Moody <pmoody@uber.com>
Petar Morjan <peter.morjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Pter Surnyi <speter.go1@gmail.com>
Pter Szab <pts@uber.com>
Pter Szilgyi <speterke@gmail.com>
Peter Teichman <pteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwi3058@gmail.com>
Peter Wu <pju@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petr Jediny <petr.jediny@gmail.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <dpd@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Sauter <sauterp@protonmail.com>
Philipp Stephani <phst@google.com>
Phillip Campbell <15082+philic@users.noreply.github.com>
Pierre Carru <pierre.carru@eshard.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellowpiers.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Poh Zi How <poh.zihow@gmail.com>
Polina Osadcha <polliosa@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Povilas Versockas <p.perversockas@gmail.com>
Prasad Siripala <pj@pjeb.com.au>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Agrawal <prashant.a.vjti@gmail.com>
Prashant Varanasi <prashant@prashantv.com>
Praveen Kumar <praveen+git@kumar.in>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Pure White <wu.purewhite@gmail.com>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <ilsh1022@gmail.com>
Quan Tran <qued.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quey-Liang Kao <s101062801@m101.nthu.edu.tw>
Quim Muntal <quimmuntal@gmail.com>
Quinn Slack <squ@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Rabin Gaire <rabingaire20@gmail.com>
Radek Simko <rdek.simko@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>
Rahul Bajaj <rahulrb0509@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Rob Pike <r@golang.org>
Robert Ayrapetyan <robert.ayrapetyan@gmail.com>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
Robert Dinu <r@varp.se>
Robert Figueiredo <robfieg@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@google.com>
Robert Kuska <kuska@gmail.com>
Robert Obryk <robrig@gmail.com>
Robert Sesek <sesek@gmail.com>
Robert Snedegar <roberts@google.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert van Gent <rvangent@gmail.com>
Robert-Andr Mauchin <zebob.m@gmail.com>
Roberto Clapis <robcrap@gmail.com>
Roberto Selbach <roberto@selbach.ca>
Robin Eklind <r.eklind.87@gmail.com>
Robin Zhong <robin@robinzhong.co>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Rodolfo Rodriguez <rodolfobgibson@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divox@gmail.com>
Roger Pau Monn <royger@gmail.com>
Roger Peppe <rogerpepe@gmail.com>
Rohan Challa <rohan@golang.org>
Rohan Verma <rohanverma2004@gmail.com>
Rohith Ravi <entombedvirus@gmail.com>
Roland Illig <roland.illig@gmx.de>
Roland Shoemaker <rolandi.shoemaker@gmail.com>
Romain Baugue <romain.baugue@elwinar.com>
Roman Budnikov <romanyx90@yandex.ru>
Roman Kollr <roman.kollr.0@gmail.com>
Roman Shchekin <mrqtro@gmail.com>
Ron Hashimoto <mail@h2so5.net>
Ron Minnich <minnich@gmail.com>
Ronnie Ebrin <ebrin.ronnie@protonmail.com>
Ross Chater <rdchater@gmail.com>
Ross Kinsey <rosskinsey@gmail.com>
Ross Light <light@google.com> <rlight2@gmail.com>
Ross Smith II <ross@smithii.com>
Rowan Marshall <rowanajmarshall@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rudi Kramer <rudi.kramer@gmail.com>
Rui Ueyama <ruiu@gmail.com>
Ruixin Bao <ruixin.bao@ibm.com>
Ruslan Andreev <ruslan.andreev@huawei.com>
Ruslan Nigmatullin <elessar@dropbox.com>
Sardorbek Pulatov <sardorbek.pulatov@outlook.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@google.com>
Sasha Sobol <sasha@scaledinference.com>
Satoru Kitaguchi <rule.the.fate.myfirststory@gmail.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Cotton <scott@mindowl.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Ragan <ragansa@fb.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@gmail.com>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <seanc@joyent.com>
Sean Christopherson <sean.j Christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Harrington <sean.harrington@leftfieldlabs.com>
Sean Hildebrand <seanwhildebrand@gmail.com>
Sean Liao <seankhliao@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Chlopecki <sebsebmca@gmail.com>
Sebastian Kinne <kinne@google.com>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sebastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Lemeshkin <sergeilem@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergei Zagurskii <gvozdoder@gmail.com>
Sergey ‘SnakE’ Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synesis.ru>
Sergey Frolov <sfrolov@google.com>
Sergey Glushchenko <gsmerge@gmail.com>
Sergey Ivanov <ser1325@gmail.com>
Sergey Kacheev <S.Kacheev@gmail.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhat Giydiren <serhatgiydiren@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoening <seth.a.hoening@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shaba Abhiram <shabarivas.abhiram@gmail.com>
Shahar Kohanim <shokhanim@gmail.com>
Shailesh Suryawanshi <ss.shailesh28@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanehmhansen@gmail.com>
Shang Jian Ding <sding3@ncsu.edu>
Shaozhen Ding <dsz0111@gmail.com>
Shaquille Que <shaquille@golang.org>
Shaquille Wyan Que <shaqqywyan@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
Shawn Elliott <selliot@microsoft.com>
Shawn Ledbetter <sledbetter@google.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengjing Zhu <zsj950618@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
Shicheng Tu <mrtoastcheng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shin Fan <shinfan@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shinnosuke Sawada <6warashi9@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivani Singhal <shivani.singhal2804@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shivashis Padhi <shivashispadhi@gmail.com>
Shoshin Nikita <shoshin_nikita@fastmail.com>
Shota Sugiura <sshota.710.3506@gmail.com>
Shubham Sharma <shubham.sha12@gmail.com>
Shuhei Takahashi <nya@chromium.org>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simo Gomes Viana <simaogmv@gmail.com>
Simarpreet Singh <simar@linux.com>
Simon Drake <simondrake1990@gmail.com>
Simon Ferquel <simon.ferquel@docker.com>
Simon Frei <freisim93@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
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# Names should be added to this file as:
#     Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
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1.100 charset-normalizer 2.0.9

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```
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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.
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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- Copy files to and from Containers in a cluster

# 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

Copy requires that *tar* be installed in the container image.

- Local file format is `<>`
- Remote file format is `::<>`

```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 `<>`
- Remote file format is `::<>`
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `\-c <container-name>`

```
```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\<namespace>/`.

- `\<pod-namespace>/\<pod-name>:\<path>`

```
```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
```

1.114 x-sys 0.0.0-20200602225109-6fdc65e7d980

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1.116 jpillarora-backoff 1.0.0

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1.120 jinja2 2.10-1.ph3

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1.121 miekg-dns 1.1.22

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Alex Sergeyev
James Hartig

1.122 python3-netifaces 0.10.4-0.1build4

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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
Author-email: alastair@alastairs-place.net
License: MIT License
Description: netifaces 0.10.4

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

.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
   :alt: Build Status

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?

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First you need to install it, which you can do by typing::

tar xzvf 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.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': '127.0.0.1'}], 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).

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') }}
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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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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.

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Found in path(s):
* /opt/cola/permits/1114239827_1607457154.51/0/netifaces-0-10-4-orig-1-tar-gz/netifaces-0.10.4/README.rst
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1.123 libnss 3.35-2ubuntu2.13

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This package was debianized by Mike Hommey <glandium@debian.org> on Sun, 25 Mar 2007 19:36:42 +0200.

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Jean-loup Gailly        Mark Adler
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1.132 kube-openapi 0.0.0-20200410145947-61e04a5be9a6

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1.133 inflight 1.0.6
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1.134 jinja2 3.0.3
1.134.1 Available under license :

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

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

[options.packages.find]
where = src

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

[tool:pytest]
testpaths = tests
filterwarnings =
error
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 = 3.6
disable_subclassing = True
disable_untyped_calls = True
disable_untyped_defs = True
disable_incomplete_defs = True
no_implicit = True
local_partial = True
no_implicit_reexport = True
strict = True
warn_redundant = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return = 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/1238552943_1638973281.87/0/jinja2-3-0-3-tar.gz/Jinja2-3.0.3/setup.cfg
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* /opt/cola/permits/1238552943_1638973281.87/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/LICENSE.rst
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: Jinja2
Version: 3.0.3
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: >=3.6
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`:

.. code-block:: text

    $ pip install -U Jinja2


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

.. code-block:: jinja

    {% extends "base.html" %}
    {% block title %}Members{% endblock %}
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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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* /opt/cola/permits/1238552943_1638973281.87/0/jinja2-3.0.3.tar.gz/Jinja2-3.0.3/PKG-INFO
* /opt/cola/permits/1238552943_1638973281.87/0/jinja2-3.0.3.tar.gz/Jinja2-3.0.3/src/Jinja2.egg-info/PKG-INFO

1.135 govalidator 0.0.0-20200108200545-475eaeb16496

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* /opt/cola/permits/1174123343_1624478217.18/0/clang-6-0-0-1-tar-gz/clang-6.0.0/examples/cindex/cindex-dump.py
* /opt/cola/permits/1174123343_1624478217.18/0/clang-6-0-0-1-tar-gz/clang-6.0.0/clang/__init__.py
* /opt/cola/permits/1174123343_1624478217.18/0/clang-6-0-0-1-tar-gz/clang-6.0.0/examples/cindex/cindex-includes.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0
Name: clang
Version: 6.0.0
Summary: UNKNOWN
Home-page: https://github.com/ethanhs/clang
Author: Ethan Smith
Author-email: ethan@ethanhs.me
License: UNKNOWN
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1174123343_1624478217.18/0/clang-6-0-0-1-tar-gz/clang-6.0.0/PKG-INFO
* /opt/cola/permits/1174123343_1624478217.18/0/clang-6-0-0-1-tar-gz/clang-6.0.0/clang.egg-info/PKG-INFO
1.137 go-httpheader 0.2.1

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1.138 azure-storage-blob-go 0.8.0

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1.140 joda-time 2.10.9

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1.141 opener 1.5.2

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1.142 golang-snappy 0.0.1
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1.143 golang-org-x-crypto v0.0.0-20200128174031-69ecbb4d6d5d

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1.144 grub2 2.04-1ubuntu44.1.2

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1.149 docker-cli 0.0.0-20200130152716-5d0cf8839492

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.152 pycrypto 2.6.1

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Last updated: 2009-02-28

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mgo - MongoDB driver for Go

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package model

import (
    "fmt"
    "sort"
    "strings"

    core "github.com/envoyproxy/go-control-plane/envoy/api/v2/core"
    route "github.com/envoyproxy/go-control-plane/envoy/api/v2/route"
    envoy_rbac "github.com/envoyproxy/go-control-plane/envoy/config/rbac/v2"
    envoy_matcher "github.com/envoyproxy/go-control-plane/envoy/type/matcher"
)

type Permission struct {
    Services []string // For backward-compatible only.
    Hosts    []string
    NotHosts []string
    Paths    []string
    NotPaths []string
    Methods  []string
    NotMethods []string
    Ports    []string
    NotPorts []string
    Constraints []KeyValues
    AllowAll  bool
    v1beta1   bool
}

// Match returns True if the calling service's attributes and/or labels match to the ServiceRole constraints.
func (permission *Permission) Match(service *ServiceMetadata) bool {
    if permission == nil {
        return true
    }

    return false
}

// Check if the service name is matched.
if len(permission.Services) != 0 {
    if !stringMatch(service.Name, permission.Services) {
        return false
    }
}
return false
}

// Check if the constraints are matched.
for _, constraint := range permission.Constraints {
for key, values := range constraint {
    var constraintValue string
    var present bool
    switch {
    case strings.HasPrefix(key, attrDestLabel):
        label, err := extractNameInBrackets(strings.TrimPrefix(key, attrDestLabel))
        if err != nil {
            rbacLog.Errorf("ignored invalid %s: %v", attrDestLabel, err)
            continue
        }
        constraintValue, present = service.Labels[label]
    case key == attrDestName || key == attrDestNamespace || key == attrDestUser:
        constraintValue, present = service.Attributes[key]
    default:
        continue
    }

    // The constraint is not matched if any of the follow condition is true:
    // a) the constraint is specified but not found in the ServiceMetadata;
    // b) the constraint value is not matched to the actual value;
    if !present || !stringMatch(constraintValue, values.Values) {
        return false
    }
}
}
return true

// ValidateForTCP checks if the permission is valid for TCP filter. A permission is not valid for TCP
// filter if it includes any HTTP-only fields, e.g. hosts, paths, etc.
func (permission *Permission) ValidateForTCP(forTCP bool) error {
    if permission == nil || !forTCP {
        return nil
    }

    if len(permissionHosts) != 0 {
        return fmtError("hosts(%v)", permissionHosts)
    }
    if len(permissionNotHosts) != 0 {
        return fmtError("hosts(%v)", permissionNotHosts)
    }
    if len(permission.Paths) != 0 {

return fmt.Errorf("paths(\%v)", permission.Paths)
    }
    if len(permission.NotPaths) != 0 {
        return fmt.Errorf("not_paths(\%v)", permission.NotPaths)
    }
    if len(permission.Methods) != 0 {
        return fmt.Errorf("methods(\%v)", permission.Methods)
    }
    if len(permission.NotMethods) != 0 {
        return fmt.Errorf("not_methods(\%v)", permission.NotMethods)
    }
    for _, constraint := range permission.Constraints {
        for k := range constraint {
            if !validConditionForTCP(k) {
                return fmt.Errorf("constraint(\%v)", constraint)
            }
            }
    }
    return nil

func validConditionForTCP(k string) bool {
    return !strings.HasPrefix(k, attrRequestHeader)
}

// Generate generates the RBAC filter config for the given permission.
// When the policy uses HTTP fields for TCP filter (forTCPFilter is true):
// - If it's allow policy (forDenyPolicy is false), returns nil so that the allow policy is ignored to avoid granting more
//   permissions in this case.
// - If it's deny policy (forDenyPolicy is true), returns a config that only includes the TCP fields (e.g. port) from the
//   policy. This makes sure
//   the generated deny policy is more restrictive so that it never grants extra permission in this case.
func (permission *Permission) Generate(forTCPFilter, forDenyPolicy bool) (*envoy_rbac.Permission, error) {
    if permission == nil {
        return nil, nil
    }
    // When true, the function will only handle the TCP fields in the permission.
    onlyTCPFields := false
    if err := permission.ValidateForTCP(forTCPFilter); err != nil {
        if !forDenyPolicy {
            return nil, err
        }
    }
    // Set onlyTCPFields to true if the deny policy is using HTTP fields so that
    // we generate a deny policy with only TCP fields.
    onlyTCPFields = true
    pg := permissionGenerator{
    }
if permission.AllowAll {
    pg.append(permission.Any())
    return pg.andPermissions(), nil
}

if !onlyTCPFields {
    if len(permission.Hosts) > 0 {
        permission := permission forKeyValues(hostHeader, permission.Hosts)
        pg.append(permission)
    }

    if len(permission.NotHosts) > 0 {
        permission := permission forKeyValues(hostHeader, permission.NotHosts)
        pg.append(permissionNot(permission))
    }

    if len(permission.Methods) > 0 {
        permission := permission forKeyValues(methodHeader, permission.Methods)
        pg.append(permission)
    }

    if len(permission.NotMethods) > 0 {
        permission := permission forKeyValues(methodHeader, permission.NotMethods)
        pg.append(permissionNot(permission))
    }

    if len(permission.Paths) > 0 {
        permission := permission forKeyValues(pathMatcher, permission.Paths)
        pg.append(permission)
    }

    if len(permission.NotPaths) > 0 {
        permission := permission forKeyValues(pathMatcher, permission.NotPaths)
        pg.append(permissionNot(permission))
    }

    if len(permission.Ports) > 0 {
        permission := permission forKeyValues(attrDestPort, permission.Ports)
        pg.append(permission)
    }

    if len(permission.NotPorts) > 0 {
        permission := permission forKeyValues(attrDestPort, permission.NotPorts)
        pg.append(permissionNot(permission))
    }
}
if len(permission.Constraints) > 0 {
    // Constraints are matched with AND semantics, it's invalid if 2 constraints have the same
    // key and this should already be caught by validation.
    for _, constraint := range permission.Constraints {
        var keys []string
        for key := range constraint {
            if !onlyTCPFields || validConditionForTCP(key) {
                keys = append(keys, key)
            }
        }
        sort.Strings(keys)
        for _, k := range keys {
            if len(constraint[k].Values) > 0 {
                perm := permission.forKeyValues(k, constraint[k].Values)
                pg.append(perm)
            }
            if len(constraint[k].NotValues) > 0 {
                perm := permission.forKeyValues(k, constraint[k].NotValues)
                pg.append(permissionNot(perm))
            }
        }
    }
    if pg.isEmpty() {
        // None of above permission satisfied means the permission applies to all paths/methods/constraints.
        pg.append(permissionAny())
    }
    return pg.andPermissions(), nil
}

// isSupportedPermission returns true if the key is supported to be used in permission.
func isSupportedPermission(key string) bool {
    switch {
    case key == attrDestIP:
    case key == attrDestPort:
    case key == attrConnSNI:
    case strings.HasPrefix(key, "experimental.envoy.filters.") && isKeyBinary(key):
    default:
        return false
    }
    return true
}

// forKeyValues converts a key-values pair to an envoy RBAC permission. The key specify the
// type of the permission (e.g. destination IP, header, SNI, etc.), the values specify the allowed
// value of the key, multiple values are ORed together.
func (permission *Permission) forKeyValues(key string, values []string) *envoy_rbac.Permission {
    var converter func(string) (*envoy_rbac.Permission, error)
    switch {
        case key == attrDestIP:
            converter = func(v string) (*envoy_rbac.Permission, error) {
                cidr, err := matcher.CidrRange(v)
                if err != nil {
                    return nil, err
                }
                return permissionDestinationIP(cidr), nil
            }
        case key == attrDestPort:
            converter = func(v string) (*envoy_rbac.Permission, error) {
                portValue, err := convertToPort(v)
                if err != nil {
                    return nil, err
                }
                return permissionDestinationPort(portValue), nil
            }
        case key == pathMatcher:
            converter = func(v string) (*envoy_rbac.Permission, error) {
                m := matcher.PathMatcher(v)
                return permissionPath(m), nil
            }
        case key == methodHeader || key == hostHeader:
            converter = func(v string) (*envoy_rbac.Permission, error) {
                m := matcher.HeaderMatcher(key, v)
                return permissionHeader(m), nil
            }
        case key == strings.HasPrefix(key, attrRequestHeader):
            header, err := extractNameInBrackets(strings.TrimPrefix(key, attrRequestHeader))
            if err != nil {
                rbacLog.Errorf("ignored invalid %s: %v", attrRequestHeader, err)
                return nil
            }
            converter = func(v string) (*envoy_rbac.Permission, error) {
                m := matcher.HeaderMatcher(header, v)
                return permissionHeader(m), nil
            }
        case key == attrConnSNI:
            converter = func(v string) (*envoy_rbac.Permission, error) {
                m := matcher.StringMatcher(v, permission.v1beta1)
                return permissionRequestedServerName(m), nil
            }
        case strings.HasPrefix(key, "experimental.envoy.filters.") && isKeyBinary(key):
            // Split key of format experimental.envoy.filters.a.b[c] to [envoy.filters.a.b, c].
            parts := strings.SplitN(strings.TrimSuffix(strings.TrimPrefix(key, "experimental."), "]"), "]", 2)
converter = func(v string) (*envoy_rbac.Permission, error) {
// If value is of format [v], create a list matcher.
// Else, if value is of format v, create a string matcher.
var m *envoy_matcher.MetadataMatcher
if strings.HasPrefix(v, "[" ) && strings.HasSuffix(v, "]") {
    m = matcher.MetadataListMatcher(parts[0], parts[1:], strings.Trim(v, "["), permission.v1beta1)
} else {
    m = matcher.MetadataStringMatcher(parts[0], parts[1], matcher.StringMatcher(v, permission.v1beta1))
}
return permissionMetadata(m), nil
}
default:
if !found(key, []string{attrDestName, attrDestNamespace, attrDestUser}) &&
!strings.HasPrefix(key, attrDestLabel) {
    // The attribute is neither matched here nor in previous stage, this means it's something we
    // don't understand, most likely a user typo.
    rbacLog.Errorf("ignored unsupported constraint: %s", key)
} return nil
}
pg := permissionGenerator{} for _, v := range values {
    if permission, err := converter(v); err != nil {
        rbacLog.Errorf("ignored invalid constraint value: %v", err)
    } else {
        pg.append(permission)
    }
}
return pg.orPermissions()
}

type permissionGenerator struct {
    permissions []*envoy_rbac.Permission
}

func (pg *permissionGenerator) isEmpty() bool {
    return len(pg.permissions) == 0
}

func (pg *permissionGenerator) append(permission *envoy_rbac.Permission) {
    if permission == nil {
        return
    }
    pg.permissions = append(pg.permissions, permission)
}

func (pg *permissionGenerator) andPermissions() *envoy_rbac.Permission {
if pg.isEmpty() {
    return nil
}

return &envoy_rbac.Permission{
    Rule: &envoy_rbac.Permission_AndRules{
        AndRules: &envoy_rbac.Permission_Set{
            Rules: pg.permissions,
        },
    },
}

func (pg *permissionGenerator) orPermissions() *envoy_rbac.Permission {
    if pg.isEmpty() {
        return nil
    }

    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_OrRules{
            OrRules: &envoy_rbac.Permission_Set{
                Rules: pg.permissions,
            },
        },
    }
}

func permissionAny() *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_Any{
            Any: true,
        },
    }
}

func permissionNot(permission *envoy_rbac.Permission) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_NotRule{
            NotRule: permission,
        },
    }
}

func permissionDestinationIP(cidr *core.CidrRange) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_DestinationIp{
            DestinationIp: cidr,
        },
    }
}
func permissionDestinationPort(port uint32) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_DestinationPort{
            DestinationPort: port,
        },
    }
}

func permissionRequestedServerName(name *envoy_matcher.StringMatcher) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_RequestedServerName{
            RequestedServerName: name,
        },
    }
}

func permissionMetadata(metadata *envoy_matcher.MetadataMatcher) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_Metadata{
            Metadata: metadata,
        },
    }
}

func permissionHeader(header *route.HeaderMatcher) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_Header{
            Header: header,
        },
    }
}

func permissionPath(path *envoy_matcher.PathMatcher) *envoy_rbac.Permission {
    return &envoy_rbac.Permission{
        Rule: &envoy_rbac.Permission_UrlPath{
            UrlPath: path,
        },
    }
}

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Gocheck - A rich testing framework for Go

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goproperties - properties file decoder for Go

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tomb - support for clean goroutine termination in Go.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.168 os-service-types 1.7.0

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1.169 metrics-graphite 4.1.16

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.graphite
Build-Jdk-Spec: 11
Bundle-Description: A reporter for Metrics which announces measurements to a Graphite server.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Graphite Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.graphite
Bundle-Version: 4.1.16
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.graphite;uses:"com.codahale.metrics,com.rabbitmq.client,javax.net";version="4.1.16"
Implementation-Title: Graphite Integration for Metrics
Implementation-Version: 4.1.16
Import-Package: com.codahale.metrics;version="[4.1,5)",com.rabbitmq.client;version="[5.10,6)",javax.net,org.slf4j;version="[1.6.0,2.0.0)"
Private-Package: com.codahale.metrics.graphite
Require-Capability: osgi.ee;filter="(&osgi.ee=JavaSE)(version=1.8)"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1171050207_1622804505.18/0/metrics-graphite-4-1-16-jar/META-INF/MANIFEST.MF

1.170 python3-flask 0.12.2-3ubuntu0.1

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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 3.6
* MT-safe
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
def class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
```
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: 00 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. 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

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Abstract Syntax Notation One (ASN.1) <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x> 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 it 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 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 or 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
--------

.. toctree::
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   /example-use-case

Download & Install
------------------

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   /download

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

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Getting help


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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1.184 ruby-did-you-mean 1.2.0-2

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1.187 python3-lazy-object-proxy 1.3.1-1

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However, linking a "work that uses the Library" with the Library
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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.

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@enumerate 0
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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.]

Preamble

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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
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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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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
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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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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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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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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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1.195 docker-go-metrics 0.0.0-20180209012529-399ea8c73916
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SNMP SMI compiler
=================
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The PySMI library and tools are designed to parse, verify and transform `SNMP SMI <https://en.wikipedia.org/wiki/Management_information_base>`_ MIB modules from their original ASN.1 form into JSON or `pysnmp <http://snmplabs.com/pysnmp/>`_ representation.

Documentation
-------------
.. toctree::
   :maxdepth: 2

Source code & Changelog
-----------------------

Project source code is hosted at `GitHub <https://github.com/etingof/pysmi>`_. Everyone is welcome to fork and contribute back!

We maintain the detailed `log of changes`_ to our software.

Download & Install
------------------
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   :maxdepth: 2
Changes
-------

.. toctree::
:maxdepth: 1

/changelog

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MIB files archive
-----------------

The PySMI project maintains a `collection <http://mibs.snmplabs.com/asn1/>`_ of publicly available ASN.1 MIB files collected on the Internet. You are welcome to use this MIBs archive however we can't guarantee any degree of consistency or reliability when it comes to these MIB modules.

The *mibdumps.py* tool as well as many other utilities based on PySMI are programmed to use this MIB repository for automatic download and dependency resolution.

You can always reconfigure PySMI to use some other remote MIB repository instead or in addition to this one.

Contact
-------

In case of questions or troubles using SNMP SMI library, please open up an `issue <https://github.com/etingof/pysmi/issues>`_ at GitHub or ask at `Stack Overflow <http://stackoverflow.com/questions/tagged/pysmi>`_.

Found in path(s):

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SNMP MIB parser
-------------
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PySMI is a pure-Python implementation of [SNMP SMI](https://en.wikipedia.org/wiki/Management_information_base) MIB parser. This tool is designed to turn ASN.1 MIBs into various formats. As of this moment, JSON and [pysnmp](https://github.com/etingof/pysnmp) modules can be generated from ASN.1 MIBs.

Features
--------
* Understands SMIv1, SMIv2 and de-facto SMI dialects
* Turns MIBs into pysnmp classes and JSON documents
* Maintains an index of MIB objects over many MIB modules
* Automatically pulls ASN.1 MIBs from local directories, ZIP archives, HTTP and FTP servers
* 100% Python, works with Python 2.4 up to Python 3.7

Rendered PySMI documentation can be found at [pysmi site](http://snmplabs.com/pysmi).

How to use PySMI
-------------

If you are using pysnmp, you might never notice pysmi presence - pysnmp calls pysmi for MIB download and compilation behind the scenes (you can still do that manually by invoking *mibdump.py* tool).

To turn ASN.1 MIB into a JSON document, call *mibdump.py* tool like this:

```bash
$ mibdump.py --generate-mib-texts --destination-format json IF-MIB
```

Source MIB repositories: file:///usr/share/snmp/mibs, http://mibs.snmplabs.com/asn1/@mib@
Borrow missing/failed MIBs from: http://mibs.snmplabs.com/json/fulltexts/@mib@
Existing/compiled MIB locations:
Compiled MIBs destination directory: .
MIBs excluded from code generation: RFC-1212, RFC-1215, RFC1065-SMI, RFC1155-SMI, RFC1158-MIB, RFC1213-MIB, SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC, SNMPv2-TM
MIBs to compile: IF-MIB
Destination format: json
Parser grammar cache directory: not used
Also compile all relevant MIBs: yes
Rebuild MIBs regardless of age: yes
Do not create/update MIBs: no
Byte-compile Python modules: no (optimization level no)
Ignore compilation errors: no
Generate OID->MIB index: no
Generate texts in MIBs: yes
Keep original texts layout: no
Try various filenames while searching for MIB module: yes
Created/updated MIBs: IANAifType-MIB, IF-MIB, SNMPv2-MIB
Pre-compiled MIBs borrowed:
Up to date MIBs: SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC
Missing source MIBs:
Ignored MIBs:
Failed MIBs:
```
JSON document build from
[IF-MIB module](http://mibs.snmplabs.com/asn1/IF-MIB)
would hold information such as:
```
```
"module": "IF-MIB",
"object": "ifEntry"
},
"ifTestId": {
"name": "ifTestId",
"oid": "1.3.6.1.2.1.31.1.3.1.1",
"nodetype": "column",
"class": "objecttype",
"syntax": {
"type": "TestAndIncr",
"class": "type"
},
"maxaccess": "read-write"
},
...
...

In general, converted MIBs capture all aspects of original (ASN.1) MIB contents and layout. The snippet above is just a partial example, but here is the complete [IF-MIB.json](http://mibs.snmplabs.com/json/fulltexts/IF-MIB.json) file.

Besides one-to-one MIB conversion, PySMI library can produce JSON index to facilitate fast MIB information lookup across large collection of MIB files. For example, JSON index for [IP-MIB.json](http://mibs.snmplabs.com/json/asn1/IP-MIB), [TCP-MIB.json](http://mibs.snmplabs.com/json/asn1/TCP-MIB) and [UDP-MIB.json](http://mibs.snmplabs.com/json/asn1/UDP-MIB) modules would keep information like this:

```json
{
  "compliance": {
    "1.3.6.1.2.1.48.2.1.1": ["IP-MIB"],
    "1.3.6.1.2.1.49.2.1.1": ["TCP-MIB"],
    "1.3.6.1.2.1.50.2.1.1": ["UDP-MIB"]
  },
  "identity": {
    "1.3.6.1.2.1.48": ["IP-MIB"
```
With this example, *compliance* and *identity* keys point to *MODULE-COMPLIANCE* and *MODULE-IDENTITY* MIB objects, *oids* list top-level OIDs branches defined in MIB modules. Full index build over thousands of MIBs could be seen [here](http://mibs.snmplabs.com/json/index.json).

The PySMI library can automatically fetch required MIBs from HTTP, FTP sites or local directories. You could configure any MIB source available to you (including [http://mibs.snmplabs.com/asn1/](http://mibs.snmplabs.com/asn1/)) for that purpose.

How to get PySMI

-----------

The pysmi package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pysmi/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pysmi).
You could `pip install pysmi` or download it from [PyPI](https://pypi.org/project/pysmi/).

If something does not work as expected, [open an issue](https://github.com/etingof/pysmi/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask).

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* /opt/cola/permits/1154558979_1618867784.84/0/etingof-pysmi-v0-3-4-0-ga0ae433-tar-gz/etingof-pysmi-a0ae433/README.md
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* /opt/cola/permits/1154558979_1618867784.84/0/etingof-pysmi-v0-3-4-0-ga0ae433-tar-gz/etingof-pysmi-a0ae433/pysmi/searcher/base.py
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* /opt/cola/permits/1154558979_1618867784.84/0/etingof-pysmi-v0-3-4-0-ga0ae433-tar-gz/etingof-pysmi-a0ae433/pysmi/lexer/base.py
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1.197 kubernetes-klog 2.4.0

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1.198 liblwp-mediatypes-perl 6.02-1

1.198.1 Available under license :

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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
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#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.

# Internet media types should be registered as described in RFC 4288.
# The registry is at <http://www.iana.org/assignments/media-types/>.

# MIME Type (lowercased) Extensions
# ============================================
# application/1d-interleaved-parityfec
# application/3gpp-ims+xml
# application/activemessage
application/andrew-insetez
# application/applefile
application/applixwareaw
application/atom+xmlatom
application/atomcat+xmlatomcat
# application/atomicmail
application/atomsvc+xmlatomsvc
# application/auth-policy+xml
# application/batch-smtp
# application/beep+xml
# application/cals-1840
application/ccxml+xmlccxml
application/cdmi-capabilitycdmia
application/cdmi-containercdmic
application/cdmi-domaincdmid
application/cdmi-objectcdmio
application/cdmi-queuecdmiq
# application/cea-2018+xml
# application/cellml+xml
# application/cfw
# application/cnrp+xml
# application/commonground
# application/conference-info+xml
# application/cpl+xml
# application/csta+xml
# application/cstudataxml
application/cu-seemecu
# application/cybercash
application/davmount+xmldavmount
# application/dca-rft
# application/dec-dx
# application/dialog-info+xml
# application/dicom
# application/dns
# application/dskpp+xml
application/dssc+derdssc
application/marcxml+xml
application/mathematica
# application/mathml-content+xml
# application/mathml-presentation+xml
application/mathml+xml
# application/nbms-associated-procedure-description+xml
# application/nbms-deregister+xml
# application/nbms-envelope+xml
# application/nbms-msk+xml
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application/mediaservercontrol+xml
application/metalink4+xml
application/mets+xml
# application/mikey
# application/mods+xml
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
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# application/mpeg4-generic
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# application/mpeg4-iod-xmt
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword+xml
application/mxf+xml
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream
application/oda
application/oebps-package+xml
application/ogg
application/onenote+xml
# application/parityfec
application/sdpsdp
# application/set-payment
application/set-payment-initiationsetpay
# application/set-registration
application/set-registration-initiationsetreg
# application/sgml
# application/sgml-open-catalog
application/shf+xml
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smilk
application/smilkxmlsmi smil
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query
application/sparql-results+xml
# application/spirits-event+xml
application/srgsgram
application/srgs+xml
application/ssml+xmlssml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
# application/tamp-community-update
# application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
application/tei+xml
tei teicorpus
application/thraud+xml
tfi
# application/timestamp-query
# application/timestamp-reply
application/timestamped-data
tsd
# application/tve-trigger
# application/ulpfec
# application/vemmi
# application/vividence.scriptfile
# application/vnd.3gpp.bsf+xml
application/vnd.3gpp.pic-bw-large plb
application/vnd.3gpp.pic-bw-small psb
application/vnd.3gpp.pic-bw-var pvb
# application/vnd.japannet-verification-wakeup
application/vnd.jcp.javame.midlet-rms
application/vnd.jispjisp
application/vnd.joost.joda-archivejoda
application/vnd.kahootzktz ktr
application/vnd.kde.karbonkarbon
application/vnd.kde.kchartchrt
application/vnd.kde.kformulakfo
application/vnd.kde.kivioflw
application/vnd.kde.kontourkon
application/vnd.kde.kpresenterkpr kpt
application/vnd.kde.kspreadksp
application/vnd.kde.kwordkwd kwt
application/vnd.kenameaapptk
application/vnd.kidspirationkia
application/vnd.kinarkn knp
application/vnd.koanskp skd skt skm
application/vnd.kodak-descriptorssse
application/vnd.las.las+xml
# application/vnd.liberty-request+xml
application/vnd.lamagraphics.life-balance.desktop
application/vnd.lamagraphics.life-balance.exchange+xml
application/vnd.lotus-1-2-3
application/vnd.lotus-approachapr
application/vnd.lotus-freelancepre
application/vnd.lotus-notesnsf
application/vnd.lotus-organizerorg
application/vnd.lotus-screenemscem
application/vnd.lotus-wordprolw
application/vnd.macports.portpkgportpkg
# application/vnd.marlin.drm.actiontoken+xml
# application/vnd.marlin.drm.conftoken+xml
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# application/vnd.marlin.drm.mdcf
application/vnd.mcdmcd
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application/vnd.micrografx.floflo
application/vnd.micrografx.igxigx
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# application/vnd.minisoft-hp3000-save
# application/vnd.mitsubishi.misty-guard.trustweb
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application/vnd.mobius.mbkmbk

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# application/vnd.omads-email+xml
# application/vnd.omads-file+xml
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# application/vnd.omaloc-supl-init
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# video/rtp-enc-aescm128
# video/rtx
# video/smpte292m
# video/ulpfec
# video/vc1
# video/vnd.cctv
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# video/vnd.objectvideo
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Found in path(s):
* /opt/cola/permits/1136703903_1613864944.59/0/liblwp-mediatypes-perl-6-02-orig-1-tar-gz/LWP-MediaTypes-6.02/lib/LWP/media.types
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=head1 NAME

LWP::MediaTypes - guess media type for a file or a URL

=head1 SYNOPSIS

use LWP::MediaTypes qw(guess_media_type);
$yype = guess_media_type("/tmp/foo.gif");
This module provides functions for handling media (also known as MIME) types and encodings. The mapping from file extensions to media types is defined by the `~/.media.types` file. If the `~/.media.types` file exists it is used instead. For backwards compatibility we will also look for `~/.mime.types`.

The following functions are exported by default:

```perl
=item guess_media_type( $filename )
=item guess_media_type( $uri )
=item guess_media_type( $filename_or_uri, $header_to_modify )
```

This function tries to guess media type and encoding for a file or a URI. It returns the content type, which is a string like `<text/html>`.

In array context it also returns any content encodings applied (in the order used to encode the file). You can pass a URI object reference, instead of the file name.

If the type can not be deduced from looking at the file name, then `guess_media_type()` will let the `-T` Perl operator take a look. If this works (and `-T` returns a TRUE value) then we return `<text/plain>` as the type, otherwise we return `<application/octet-stream>` as the type.

The optional second argument should be a reference to a HTTP::Headers object or any object that implements the `$obj->header` method in a similar way. When it is present the values of the 'Content-Type' and 'Content-Encoding' will be set for this header.

```perl
=item media_suffix( $type, ... )
```

This function will return all suffixes that can be used to denote the specified media type(s). Wildcard types can be used. In a scalar context it will return the first suffix found. Examples:

```perl
@suffixes = media_suffix('image/*', 'audio/basic');
$suffix = media_suffix('text/html');
```

The following functions are only exported by explicit request:
Associate a list of file extensions with the given media type.
Example:

    add_type("x-world/x-vrml" => qw(wrl vrml));

Associate a list of file extensions with an encoding type.
Example:

    add_encoding("x-gzip" => "gz");

Parse media types files and add the type mappings found there.
Example:

    read_media_types("conf/mime.types");
used instead. For backwards compatibility we will also look for
~/.mime.types.

The following functions are exported by default:

guess_media_type( $filename )
guess_media_type( $uri )
guess_media_type( $filename_or_uri, $header_to_modify )
    This function tries to guess media type and encoding for a file or a
    URI. It returns the content type, which is a string like
    `"text/html"'. In array context it also returns any content
    encodings applied (in the order used to encode the file). You can
    pass a URI object reference, instead of the file name.

    If the type can not be deduced from looking at the file name, then
    guess_media_type() will let the `-T' Perl operator take a look. If
    this works (and `-T' returns a TRUE value) then we return
    *text/plain* as the type, otherwise we return
    *application/octet-stream* as the type.

    The optional second argument should be a reference to a
    HTTP::Headers object or any object that implements the $obj->header
    method in a similar way. When it is present the values of the
    'Content-Type' and 'Content-Encoding' will be set for this header.

media_suffix( $type, ... )
    This function will return all suffixes that can be used to denote
    the specified media type(s). Wildcard types can be used. In a scalar
    context it will return the first suffix found. Examples:

    @suffixes = media_suffix('image/*', 'audio/basic');
    $suffix = media_suffix('text/html');

The following functions are only exported by explicit request:

add_type( $type, @exts )
    Associate a list of file extensions with the given media type.
    Example:

    add_type("x-world/x-vrml" => qw(wrl vrml));

add_encoding( $type, @ext )
    Associate a list of file extensions with an encoding type. Example:

    add_encoding("x-gzip" => "gz");

read_media_types( @files )
    Parse media types files and add the type mappings found there.
Example:

    read_media_types("conf/mime.types");

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1.199 @dabh/diagnostics 2.0.2

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1.200 jq 1.5+dfsg 2

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g_fmt.c:
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1.201 webrick 1.4.4

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1.202 x-sync 0.0.0-20201207232520-09787c993a3a

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1.203 kubernetes 1.19.0

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// For more information: http://goo.gl/8us5sa#licenseObject
type License struct {
    Name string `json:"name,omiteny"`
    URL  string `json:"url,omiteny"`
}

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// Notice is a migration warning

type Notice struct {
    Plugin string
    Option string
    Severity string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin %v", n.Plugin)
    } else {
        s += fmt.Sprintf("Option %v in plugin %v", n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(" It is replaced by %v", n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
// The following statuses are used to indicate the state of support/deprecation in a given release.
deprecated = "deprecated"  // deprecated, but still completely functional
ignored = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
removed = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
unsupported = "unsupported" // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
all = "all"  // show all statuses
)

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- Copy files to and from Containers in a cluster

# 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

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

## 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>`

{% sample lang="yaml" %}
```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
{% endmethod %}

## 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>`

{% sample lang="yaml" %}
```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
{% endmethod %}

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `:c <container-name>`
```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

```
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/` .

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
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Data model artifacts for Prometheus.

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tomb - support for clean goroutine termination in Go.

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import (  
  "github.com/vmware/govmomi/object"  
  "github.com/vmware/govmomi/vim25/methods"  
  "github.com/vmware/govmomi/vim25/mo"  
  "github.com/vmware/govmomi/vim25/soap"  
  "github.com/vmware/govmomi/vim25/types"  
)

// EvalLicense is the default license  
var EvalLicense = types.LicenseManagerLicenseInfo{  
  LicenseKey: "00000-00000-00000-00000-00000",  
  EditionKey: "eval",  
  Name: "Evaluation Mode",  
  Properties: []types.KeyAnyValue{  
    
  }
}
Key: "feature",
Value: types.KeyValue{
Key:  "serialuri:2",
Value: "Remote virtual Serial Port Concentrator",
},
},
{
Key: "feature",
Value: types.KeyValue{
Key:  "dvs",
Value: "vSphere Distributed Switch",
},
},
},
},
}

type LicenseManager struct {
  mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
m := &LicenseManager{}
m.Self = ref
m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

if Map.IsVPX() {
am := Map.Put(&LicenseAssignmentManager{}).Reference()
m.LicenseAssignmentManager = &am
}

return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
body := &methods.AddLicenseBody{
Res: &types.AddLicenseResponse{}
}
}

for _, license := range m.Licenses {
if license.LicenseKey == req.LicenseKey {
body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
return body
}
}

m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
LicenseKey: req.LicenseKey,
Labels: req.Labels,
})
func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)  
            return body
        }
    }
    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)  
                } else {
                    label.Value = req.LabelValue
                }
                return body
            }
        }
        license.Labels = append(license.Labels, types.KeyValue{
            Key:   req.LabelKey,
            Value:  req.LabelValue,
        })
    }
    return body
}
Value: req.LabelValue,
})

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
  mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
  body := &methods.QueryAssignedLicensesBody{
    Res: &types.QueryAssignedLicensesResponse{},
  }

  // EntityId can be a HostSystem or the vCenter InstanceUuid
  if req.EntityId != "" {
    if req.EntityId != Map.content().About.InstanceUuid {
      id := types.ManagedObjectReference{
        Type: "HostSystem",
        Value: req.EntityId,
      }

      if Map.Get(id) == nil {
        return body
      }
    }
  }

  body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    { EntityId: req.EntityId, AssignedLicense: EvalLicense, },
  }

  return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
  info := EvalLicense

  info.LicenseKey = key
info.Labels = labels

return info
}
= vendor/github.com/client9/misspell licensed under: =

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1.208 builder 0.0.0-20150808151131-f22ce00fd939

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1.210 base-files 10.1ubuntu2.10

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Lato is a sanserif typeface family designed in the Summer 2010 by Warsaw-based designer ukasz Dziedzic (“Lato” means “Summer” in Polish). In December 2010 the Lato family was published under the open-source Open Font License by his foundry tyPoland, with support from Google. In 2013-2014, the family was greatly extended to cover 2300+ glyphs per style. It now supports 100+ Latin-based languages, 50+ Cyrillic-based languages as well as Greek and IPA phonetics. In the process, the metrics and kerning of the family have been revised and four additional weights were created.

In the last ten or so years, during which ukasz has been designing type, most of his projects were rooted in a particular design task that he needed to solve. With Lato, it was no different. Originally, the family was conceived as a set of corporate fonts for a large client — who in the end decided to go in different stylistic direction, so the family became available for a public release.

When working on Lato, ukasz tried to carefully balance some potentially conflicting priorities. He wanted to create a typeface that would seem quite “transparent” when used in body text but would display some original traits when used in larger sizes. He used classical proportions (particularly visible in the uppercase) to give the letterforms familiar harmony and elegance. At the same time, he created a sleek sanserif look, which makes evident the fact that Lato was designed in 2010 — even though it does not follow any current trend.

The semi-rounded details of the letters give Lato a feeling of warmth, while the strong structure provides stability and seriousness. “Male and female, serious but friendly. With the feeling of the Summer,” says ukasz.

Lato consists of nine weights (plus corresponding italics), including a beautiful hairline style.
CONTENTS:

This folder contains 18 font files in OpenType TT (.ttf) format. You can install these fonts on your computer and use in any desktop applications (such as Word, InDesign, Illustrator, Photoshop, Keynote or Pages).

REVISION LOG:

# Version 2.007 (2014-02-27)
Greatly expanded character set, revised metrics, four additional weights.

# Version 1.104 (2011-11-08)
Merged the distribution again
Autohinted with updated ttfautohint 0.4 (which no longer causes Adobe and iOS problems) except the Hai and Lig weights which are hinted in FLS 5.1.

# Version 1.102 (2011-10-28)
Added OpenType Layout features
Ssplit between desktop and web versions
Desktop version: all weights autohinted with FontLab Studio
Web version autohinted with ttfautohint 0.4 except the Hai and Lig weights

# Version 1.101 (2011-09-30)
Fixed OS/2 table Unicode and codepage entries

# Version 1.100 (2011-09-12)
Added Polish diacritics to the character set
Weights Hai and Lig autohinted with FontLab Studio
Other weights autohinted with ttfautohint 0.3

# Version 1.011 (2010-12-29)
Added the soft hyphen glyph

# Version 1.010 (2010-12-13)
Initial version released under SIL Open Font License
Western character set

Found in path(s):
* /opt/cola/permits/1152278336_1618211001.95/0/fonts-lato-2-0-orig-2-tar-xz/fonts-lato-2.0/README.txt
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1152278336_1618211001.95/0/fonts-lato-2-0-orig-2-tar-xz/fonts-lato-2.0/OFL.txt
1.212 six 1.16.0

1.212.1 Available under license:

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Marc Abramowitz
immerrr again
Alexander Artemenko
Aymeric Augustin
Lee Ball
Ben Bariteau
Ned Batchelder
Wouter Bolsterlee
Brett Cannon
Jason R. Coombs
Julien Danjou
Ben Darnell
Ben Davis
Jon Dufresne
Tim Graham
Thomas Grainger
Max Grender-Jones
Pierre Grimaud
Joshua Harlow
Toshiki Kataoka
Hugo van Kemenade
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Jordan Moldow
Berker Peksag
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Erik Rose
Mirko Rossini
Peter Ruibal
Miroslav Shubernetskii
Eli Schwartz
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1.213 influxdata-line-protocol 0.0.0-20200327222509-2487e7298839
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1.218 zlib 1.2.11

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1.219 http-proxy-agent 4.0.1
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http-proxy-agent
### An HTTP(s) proxy `http.Agent` implementation for HTTP

[![Build Status](https://github.com/TooTallNate/node-http-proxy-agent/workflows/Node%20CI/badge.svg)](https://github.com/TooTallNate/node-http-proxy-agent/actions?workflow=Node+CI)

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `http` module.

__Note:__ For HTTP proxy usage with the `https` module, check out [`node-https-proxy-agent`](https://github.com/TooTallNate/node-https-proxy-agent).

**Installation**

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

Install with `npm`:

```bash
$ npm install http-proxy-agent
```

**Example**

-------

```js
var url = require('url');
var http = require('http');
var HttpProxyAgent = require('http-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `HttpProxyAgent` class with the proxy server information
var agent = new HttpProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
  console.log("response" event!", res.headers);
  res.pipe(process.stdout);
});
```
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1.220 x-time-rate 0.0.0-20200630173020-3af7569d3a1e
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1.222 bridgeutils 1.5 15ubuntu1

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1.224 dropwizard-metrics-graphite 1.3.29

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1.226 x-crypto 0.0.0-20171231215028-0fcca4842a8d

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1.228 wrap-ansi 7.0.0

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1.231 kubernetes 1.21.2

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package types

import "time"

// FeatureType store features types
type FeatureType string

const {
    // HA means High Availability
    HA = FeatureType("HA")
    // DEV means developer licence
    DEV = FeatureType("DEV")
    // TRIAL means trial licence
    TRIAL = FeatureType("TRIAL")
}

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {
    ArrayUUID    string `json:"arrayUUID,omitempty"
    ClusterID    string `json:"clusterID,omitempty"
    CustomerID   string `json:"customerID"
    CustomerName string `json:"customerName"
    Storage      int    `json:"storage"
    ValidUntil   time.Time `json:"validUntil"
    LicenceType  string `json:"licenceType"
    Features     map[FeatureType]bool `json:"features"
    Unregistered bool `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key

type LicenceKeyContainer struct {
    Key string `json:"key"
}
```

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= vendor/github.com/golang/protobuf/LICENSE 939cce1ec101726fa754e698ac871622
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
  Plugin     string
  Option     string
}
func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const {
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
    removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
}

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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

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>`
## 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.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

### Namespaces

Set the Pod namespace by prefixing the Pod name with ` `<namespace>`:` `

- ` `<pod-namespace>`:` `<pod-name>`:` `<path>``

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar

```
{% endmethod %}
```

```bash
= vendor/github.com/hashicorp/hcl licensed under: =

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Brad Fitzpatrick <bradfitz@golang.org>
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Sarah Adams <shadams@google.com>
Scott Van Woudenberg <scottvw@google.com>
Takashi Matsuo <tmatsuo@google.com>
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abrarshivani <abrarshivani@users.noreply.github.com>
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= vendor/github.com/mindprince/gonvml/LICENSE 3b83ef96387f14655fc854ddc3c6bd57
package storageos

import (  
"encoding/json"

"github.com/storageos/go-api/types"
)

const (  
// licenceAPIPrefix is a partial path to the HTTP endpoint.  
licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.  
func (c *Client) Licence() (*types.Licence, error) {  
resp, err := c.do("GET", licenceAPIPrefix, doOptions{})  
if err != nil {  
return nil, err  
}  
defer resp.Body.Close()  
licence := &types.Licence{}  
if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {  
return nil, err  
}  
return licence, nil  
}

// LicenceApply applies a licence on the server.  
func (c *Client) LicenceApply(licenceKey string) error {  _ , err := c.do("POST", licenceAPIPrefix, doOptions{  
data: &types.LicenceKeyContainer{Key: licenceKey},  
})  
return err  
}
// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{ })
    if err != nil {
        return err
    }
    return resp.Body.Close()
}

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import {
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
}

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:     "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
m := &LicenseManager{ }
m.Self = ref
m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}) .Reference()
m.LicenseAssignmentManager = &am
}

return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:   req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }

    return body
}
func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

        for i := range m.Licenses {
            license := &m.Licenses[i]

            if req.LicenseKey != license.LicenseKey {
                continue
            }

            body.Res = new(types.UpdateLicenseLabelResponse)

            for j := range license.Labels {
                label := &license.Labels[j]

                if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                    } else {
                        label.Value = req.LabelValue
                    }
                    return body
                }

                license.Labels = append(license.Labels, types.KeyValue{
                    Key:   req.LabelKey,
                    Value: req.LabelValue,
                })

                return body
            }

            body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
            return body
        }

        type LicenseAssignmentManager struct {
            mo.LicenseAssignmentManager
        }

        func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
            body := &methods.QueryAssignedLicensesBody{
                Res: &types.QueryAssignedLicensesResponse{

                    // EntityId can be a HostSystem or the vCenter InstanceUuid
                }
            }
        }
if req.EntityId != "" {
if req.EntityId != Map.content().About.InstanceUuid {
    id := types.ManagedObjectReference{
        Type: "HostSystem",
        Value: req.EntityId,
    }

    if Map.Get(id) == nil {
        return body
    }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    {
        EntityId: req.EntityId,
        AssignedLicense: EvalLicense,
    },
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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= vendor/github.com/moby/sys/mountinfo/LICENSE 3b83ef96387f14655fc854ddc3c6bd57

1.232 libhtml-parser-perl 3.72-3build1

1.232.1 Available under license :

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

=back

=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>

=head1 COPYRIGHT

Copyright 1996-2001 Gisle Aas.

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=cut

Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/LinkExtor.pm
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
SYNOPSIS

use HTML::Entities;

$a = "Vårne norske tegn b\&oslash;r \&#230res";
decode_entities($a);
encode_entities($a, "\200-\377");

For example, this:

$input = "vis-à-vis Beyoncé’s naïve papier-mâché résumé";
print encode_entities($input), "\n"

Prints this out:

vis-à-vis Beyoncé’s naïve papier-mâché résumé

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.

=item _decode_entities( $string, %entity2char )

=item _decode_entities( $string, %entity2char, $expand_prefix )

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.

$string = "foo&nbspbar";
_decode_entities($string, { nb => "@", nbsp => "\xA0" }, 1);
print $string;  # will print "foo  bar"

This routine is exported by default.

=item encode_entities( $string )

=item encode_entities( $string, $unsafe_chars )

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<< > >>, and C<< " >> characters:

$encoded = encode_entities($input, '<<>&"');

and this would only encode non-plain ascii:

$encoded = encode_entities($input, '^\n\x20-\x25\x27-\x7e');

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 C<&hexnum;> and never C<&entname;>. For example, C<encode_entities("r\xF4le")> returns "r&ocirc;le", but
C<encode_entities_numeric("r\xF4le")> returns "r&amp;#xF4;le".

This routine is I<not> exported by default. But you can always export it with C<use HTML::Entities qw(encode_entities_numeric);>
or even C<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:

use HTML::Entities ();
$decoded = HTML::Entities::decode($a);
$encoded = HTML::Entities::encode($a);
$encoded = HTML::Entities::encode_numeric($a);

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

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=cut

Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/lib/html-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::Parser - HTML parser class

=head1 SYNOPSIS

use HTML::Parser ();

# Create parser object
$parser = HTML::Parser->new( api_version =&gt; 3,
Objects of the C<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.

C<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 C<HTML::PullParser>. This is an C<HTML::Parser> subclass that allows a more conventional program structure.
This class method creates a new `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 `"<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 => [%handlers]' option. See examples below.

If `new()` is called without any arguments, it will create a parser that uses callback methods compatible with version 2 of `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 `HTML::Parser` object:

---

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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.

```perl
=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.

```perl
=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.

```perl
=item $p->closing_plaintext
=item $p->closing_plaintext( $bool )
```

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.

```perl
=item $p->empty_element_tags
=item $p->empty_element_tags( $bool )
```

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.

```perl
=item $p->marked_sections
=item $p->marked_sections( $bool )
```
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>.

=item $p->strict_comment

=item $p->strict_comment( $bool )

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 "xE2x99xA5" 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\xA5xE2\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 "">"” instead.

=back

As markup and text is recognized, handlers are invoked. The following method is used to set up handlers for different events:

=over

=item $p->handler( event => \&subroutine, $argspec )

=item $p->handler( event => $method_name, $argspec )

=item $p->handler( event => \@accum, $argspec )

=item $p->handler( event => "" );

=item $p->handler( event => undef );

=item $p->handler( event );

=back

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.

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:

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 C<script> and C<style> tags will always nest properly since their content is parsed in CDATA mode. For most other tags C<ignore_elements> must be used with caution since HTML is often not I<well formed>.

Any C<start> and C<end> events involving any of the tags given are suppressed. To reset the filter (i.e. don't suppress any C<start> and C<end> events), call C<ignore_tags> without an argument.

Any C<start> and C<end> events involving any of the tags I<not> given are suppressed. To reset the filter (i.e. report all C<start> and C<end> events), call C<report_tags> without an argument.

Internally, the system has two filter lists, one for C<report_tags> and one for C<ignore_tags>, and both filters are applied. This effectively gives C<ignore_tags> precedence over C<report_tags>.

Examples:
$p->ignore_tags(qw(style));
$p->report_tags(qw(script style));

results in only \texttt{C\textless script\textgreater} 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\textless attr\textgreater

Attr causes a reference to a hash of attribute name/value pairs to be passed.

Boolean attributes' values are either the value set by \texttt{$p->boolean_attribute_value}, or the attribute name if no value has been set by \texttt{$p->boolean_attribute_value}.

This passes \texttt{undef} except for \texttt{C\textless start\textgreater} events.

Unless \texttt{C\textless xml_mode\textgreater} or \texttt{C\textless case_sensitive\textgreater} 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\textless @attr\textgreater

Basically the same as \texttt{C\textless attr\textgreater}, 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:

\begin{verbatim}
@attr = map { $_ => $attr->{$_} } @$attrseq;
\end{verbatim}

assuming $attr and $attrseq here are the hash and array passed as the result of \texttt{C\textless attr\textgreater} and \texttt{C\textless attrseq\textgreater} argspecs.

This passes no values for events besides \texttt{C\textless start\textgreater}.

=item C\textless attrseq\textgreater
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 undef 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.
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.

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.

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>.

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.

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>.

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 C<process> events, this contains the process instructions (always one token).

This passes C<undef> for C<text> events.

=item C<text>

Text causes the source text (including markup element delimiters) to be passed.

=item C<undef>

Pass an undefined value. Useful as padding where the same handler routine is registered for multiple events.

=item C<'...'>

A literal string of 0 to 255 characters enclosed in single (’) or double (”) quotes is passed as entered.

=back

The whole argspec string can be wrapped up in C<@{...}> 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:

```
$p->handler(text => [], 'text');
$p->handler(text => [], '@{text}');
```


With two text events; C"foo">, C"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 C<comment>

This event is triggered when a markup comment is recognized.

Example:

<!-- This is a comment -- -- So is this -->

=item C<declaration>

This event is triggered when a I<markup declaration> is recognized.

For typical HTML documents, the only declaration you are likely to find is <!DOCTYPE ...>.

Example:

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">

DTDs inside <!DOCTYPE ...> will confuse HTML::Parser.

=item C<default>

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.

=item C<end>

This event is triggered when an end tag is recognized.

Example:

</A>

=item C<end_document>
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.

=item C<process>

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 processing instructions >
<? XML processing instructions ?>

=item C<start>

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:

```perl
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:

```perl
$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) {$_->comment($_);},
        "self, tokens");
$p->handler(declaration =>
    sub {
        my $self = shift;
        $self->declaration(substr($_[0], 2, -1));,
        "self, text");
```

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 => [""],
)->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";

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More examples are found in the F<eg/> directory of the C<HTML-Parser> distribution: the program C<hrefs> shows how you can edit all links found in a document; the program C<htext> 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 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 Unterminated 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.

=W 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.

=W 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.

=W 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.

=head1 SEE ALSO

L<HTML::Entities>, L<HTML::PullParser>, L<HTML::TokeParser>, L<HTML::HeadParser>, L<HTML::LinkExtor>, L<HTML::Form>
L<HTML::TreeBuilder> (part of the I<HTML-Tree> distribution)
L<http://www.w3.org/TR/html4/> More information about marked sections and processing instructions may be found at L<http://www.is-thought.co.uk/book/sgml-8.htm>.

=head1 COPYRIGHT

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cut

Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/Parser.pm
No license file was found, but licenses were detected in source scan.
Found in path(s):

* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/hparser.c
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/hparser.h

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 );

=item $p = HTML::TokeParser->new( $filehandle, %opt );

=item $p = HTML::TokeParser->new( \$document, %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:

[$tag, $attr, $attrseq, $text]

The tagname of end tags are prefixed with "/", i.e. end tag is returned like this:

[/$tag", $text]

=item $p->get_text

=item $p->get_text( @endtags )
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 or linebreak element.

The text might span tags that should be treated as text. 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.

```perl
=item $p->get_trimmed_text
```

```perl
=item $p->get_trimmed_text( @endtags )
```

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.

```perl
=item $p->get_phrase
```

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 `<i>`phrasal-level tags</i>` is obtained from the HTML::Tagset module.
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:

```perl
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	$text
";
}
```

This example extract the <TITLE> from the document:

```perl
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";
}
```

SEE ALSO

L<HTML::PullParser>, L<HTML::Parser>

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NAME

HTML::Filter - Filter HTML text through the parser
NOTE

This module is deprecated. The HTML::Parser now provides the functionally of HTML::Filter much more efficiently with the default handler.

SYNOPSIS

use HTML::Filter;
$p = HTML::Filter->new->parse_file("index.html");

DESCRIPTION

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.

HTML::Filter is a subclass of HTML::Parser. This means that the document should be given to the parser by calling the $p->parse() or $p->parse_file() methods.

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;
use HTML::Filter;
@ISA=qw(HTML::Filter);
sub comment { } # ignore comments

The second example shows a filter that will remove any \<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;
use 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>
=head1 COPYRIGHT
Copyright 1997-1999 Gisle Aas.
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modify it under the same terms as Perl itself.
=cut
Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser3.72/lib/HTML/Filter.pm
No license file was found, but licenses were detected in source scan.
OVERVIEW
The HTML-Parser distribution is is a collection of modules that parse
and extract information from HTML documents. The modules present in
this collection are:

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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/1119808571_1609793015.8/0/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.

/*
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 */

Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/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.

=back

=head1 EXAMPLE

$h = HTTP::Headers->new;
$p = HTML::HeadParser->new($h);
$p->parse("<EOT);
<title>Stupid example</title>
;base href="http://www.linpro.no/lwp/"
Normal text starts here.
EOT

undef $p;
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
If you don't have that distribution installed you need to provide the $header argument to the HTML::HeadParser constructor with your own object that implements the documented protocol.

=head1 COPYRIGHT

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=cut

Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1.tar.gz/HTML-Parser-3.72/lib/HTML/HeadParser.pm
No license file was found, but licenses were detected in source scan.

/
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* 
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*/

Found in path(s):
* /opt/cola/permits/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1.tar.gz/HTML-Parser-3.72/Parser.xs
No license file was found, but licenses were detected in source scan.

---
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/1119808571_1609793015.8/0/libhtml-parser-perl-3-72-orig-1.tar.gz/HTML-Parser-3.72/META.yml
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=head1 NAME

HTML::PullParser - Alternative HTML::Parser interface

=head1 SYNOPSIS

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
A \texttt{HTML::PullParser} can be made to parse from either a file or a literal document based on whether the \texttt{file} or \texttt{doc} option is passed to the parser's constructor.

The \texttt{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 \texttt{HTML::PullParser} can read() from when it needs more data. The stream will be read() until EOF, but not closed.

A \texttt{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 \texttt{HTML::Parser}) with the events you have an interest in. For instance, if you want \texttt{start} tokens to be reported as the string \texttt{S} followed by the tagname and the attributes you might pass an \texttt{start}-option like this:

\begin{verbatim}
$p = HTML::PullParser->new(
  doc => 
    $document_to_parse,
  start => "S", tagname, @attr,
  end  => "E", tagname,
);
\end{verbatim}

At last other \texttt{HTML::Parser} options, like \texttt{ignore_tags}, and \texttt{unbroken_text}, can be passed in. Note that you should not use the \texttt{event}_h options to set up parser handlers. That would confuse the inner logic of \texttt{HTML::PullParser}.

This method will return the next I<token> found in the HTML document, or I<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 \texttt{HTML::PullParser} construction.

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>

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=cut

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* /opt/cola/permits/1119808571_1609793015.80/libhtml-parser-perl-3-72-orig-1.tar.gz/HTML-Parser-3.72/lib/HTML/PullParser.pm

1.233 gotenv 1.2.0

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1.234 libiscsi7 1.17.0-1.1

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

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1.236 golang-genproto 0.0.0-20190801165951-fa694d86fc64

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1.240 coreos-go-semver v0.3.0

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Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
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John Shahid <jvshahid@gmail.com>
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1.269 github.com/antchfx/xmlquery 1.3.5
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1.270 go-runtime 1.11.2
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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aditya Mukerjee</td>
<td><a href="mailto:dev@chimeracoder.net">dev@chimeracoder.net</a></td>
</tr>
<tr>
<td>Adrian Hesketh</td>
<td><a href="mailto:adrianhesketh@hushmail.com">adrianhesketh@hushmail.com</a></td>
</tr>
<tr>
<td>Adrian Nos</td>
<td><a href="mailto:nos.adrian@gmail.com">nos.adrian@gmail.com</a></td>
</tr>
<tr>
<td>Adrian O'Grady</td>
<td><a href="mailto:elpollouk@gmail.com">elpollouk@gmail.com</a></td>
</tr>
<tr>
<td>Adrien Bustany</td>
<td><a href="mailto:adrien-xx-google@bustany.org">adrien-xx-google@bustany.org</a></td>
</tr>
<tr>
<td>Adrien Petel</td>
<td><a href="mailto:peteladrien@gmail.com">peteladrien@gmail.com</a></td>
</tr>
<tr>
<td>Acio Jnior</td>
<td><a href="mailto:aeciodantasjunior@gmail.com">aeciodantasjunior@gmail.com</a></td>
</tr>
<tr>
<td>Aeneas Rekkas</td>
<td><a href="mailto:aeneas@ory.am">aeneas@ory.am</a></td>
</tr>
<tr>
<td>Afanasev Stanislav</td>
<td><a href="mailto:phpprogger@gmail.com">phpprogger@gmail.com</a></td>
</tr>
<tr>
<td>Agis Anastasopoulos</td>
<td><a href="mailto:agis.anast@gmail.com">agis.anast@gmail.com</a></td>
</tr>
<tr>
<td>Agniva De Sarker</td>
<td><a href="mailto:agnivade@yahoo.co.in">agnivade@yahoo.co.in</a></td>
</tr>
<tr>
<td>Ahmed Wahed</td>
<td><a href="mailto:oneofone@gmail.com">oneofone@gmail.com</a></td>
</tr>
<tr>
<td>Ahmet Alp Balkan</td>
<td><a href="mailto:ahmethb@google.com">ahmethb@google.com</a></td>
</tr>
<tr>
<td>Ahmet Soormally</td>
<td><a href="mailto:ahmet@mangomm.co.uk">ahmet@mangomm.co.uk</a></td>
</tr>
<tr>
<td>Ahmy Yulrizka</td>
<td><a href="mailto:yulrizka@gmail.com">yulrizka@gmail.com</a></td>
</tr>
<tr>
<td>Aiden Scandella</td>
<td><a href="mailto:sai@uber.com">sai@uber.com</a></td>
</tr>
<tr>
<td>Ainar Garipov</td>
<td><a href="mailto:gugl.zadolbal@gmail.com">gugl.zadolbal@gmail.com</a></td>
</tr>
<tr>
<td>Aishraj Dahal</td>
<td><a href="mailto:aishraj@users.noreply.github.com">aishraj@users.noreply.github.com</a></td>
</tr>
<tr>
<td>Akhil Indurti</td>
<td><a href="mailto:contact@akhilindurti.com">contact@akhilindurti.com</a></td>
</tr>
<tr>
<td>Akhihiro Suda</td>
<td><a href="mailto:suda.kyoto@gmail.com">suda.kyoto@gmail.com</a></td>
</tr>
<tr>
<td>Akshat Kumar</td>
<td><a href="mailto:seed@mail.nanosouffle.net">seed@mail.nanosouffle.net</a></td>
</tr>
<tr>
<td>Alan Donovan</td>
<td><a href="mailto:adonovan@gmail.com">adonovan@gmail.com</a></td>
</tr>
<tr>
<td>Alan Shreve</td>
<td><a href="mailto:alan@inconshiveable.com">alan@inconshiveable.com</a></td>
</tr>
<tr>
<td>Albert Nigmatzianov</td>
<td><a href="mailto:albertnigma@gmail.com">albertnigma@gmail.com</a></td>
</tr>
<tr>
<td>Albert Strasheim</td>
<td><a href="mailto:fullung@gmail.com">fullung@gmail.com</a></td>
</tr>
<tr>
<td>Albert Yu</td>
<td><a href="mailto:yukinying@gmail.com">yukinying@gmail.com</a></td>
</tr>
<tr>
<td>Alberto Bertogli</td>
<td><a href="mailto:albertito@blitiri.com">albertito@blitiri.com</a></td>
</tr>
<tr>
<td>Alberto Donizetti</td>
<td><a href="mailto:alb.donizetti@gmail.com">alb.donizetti@gmail.com</a></td>
</tr>
<tr>
<td>Alberto Garca Hierro</td>
<td><a href="mailto:alberto@garciahierro.com">alberto@garciahierro.com</a></td>
</tr>
<tr>
<td>Aleksandar Dezelin</td>
<td><a href="mailto:dezelin@gmail.com">dezelin@gmail.com</a></td>
</tr>
<tr>
<td>Aleksandr Lukinykh</td>
<td><a href="mailto:a.lukinykh@xsolla.com">a.lukinykh@xsolla.com</a></td>
</tr>
<tr>
<td>Alekseev Artem</td>
<td><a href="mailto:a.artem060@gmail.com">a.artem060@gmail.com</a></td>
</tr>
<tr>
<td>Alessandro Arzilli</td>
<td><a href="mailto:alessandro.arzilli@gmail.com">alessandro.arzilli@gmail.com</a></td>
</tr>
<tr>
<td>Alessandro Baffa</td>
<td><a href="mailto:alessandro.baffa@gmail.com">alessandro.baffa@gmail.com</a></td>
</tr>
<tr>
<td>Alex A Skinner</td>
<td><a href="mailto:alex@lx.lc">alex@lx.lc</a></td>
</tr>
<tr>
<td>Alex Brainman</td>
<td><a href="mailto:alex.brainman@gmail.com">alex.brainman@gmail.com</a></td>
</tr>
<tr>
<td>Alex Bramley</td>
<td><a href="mailto:abramley@gmail.com">abramley@gmail.com</a></td>
</tr>
<tr>
<td>Alex Browne</td>
<td><a href="mailto:stephenalexbrown@gmail.com">stephenalexbrown@gmail.com</a></td>
</tr>
<tr>
<td>Alex Carol</td>
<td><a href="mailto:alex.carol.c@gmail.com">alex.carol.c@gmail.com</a></td>
</tr>
<tr>
<td>Alex Jin</td>
<td><a href="mailto:toalexjin@gmail.com">toalexjin@gmail.com</a></td>
</tr>
<tr>
<td>Alex Myasoedov</td>
<td><a href="mailto:msoedov@gmail.com">msoedov@gmail.com</a></td>
</tr>
<tr>
<td>Alex Plugaru</td>
<td><a href="mailto:salex@plugaru.org">salex@plugaru.org</a></td>
</tr>
<tr>
<td>Alex Schroeder</td>
<td><a href="mailto:alex@gnu.org">alex@gnu.org</a></td>
</tr>
<tr>
<td>Alex Sergeyev</td>
<td><a href="mailto:abc@alexsevergev.com">abc@alexsevergev.com</a></td>
</tr>
<tr>
<td>Alex Vaghan</td>
<td><a href="mailto:chryme@google.com">chryme@google.com</a></td>
</tr>
<tr>
<td>Alexander Demakin</td>
<td><a href="mailto:alexander.demakin@gmail.com">alexander.demakin@gmail.com</a></td>
</tr>
<tr>
<td>Alexander Dring</td>
<td><a href="mailto:email@alexd.ch">email@alexd.ch</a></td>
</tr>
<tr>
<td>Alexander F Rdsseth</td>
<td><a href="mailto:alexander.rodseth@appeartv.com">alexander.rodseth@appeartv.com</a></td>
</tr>
</tbody>
</table>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <aleaxander.larsson@gmail.com>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpernd.de>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Pantyukhin <apantykhnin@gmail.com>
Alexander Polcyn <apolicyn@google.com>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandreviau.net>
Alexandru Mooi <brtznr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexeex.palazhchenko@gmail.com>
Alexis Hildebrandt <surryhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@google.com>
Ali Rizvi-Santiago <arizvisa@gmail.com>
Aliaksandr Vialidin <valyala@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Allan Simon <allan.simon@supinfo.com>
Alok Menghrajani <alok.menghrajani@gmail.com>
Aman Gupta <aman@tmm1.net>
Amir Mohammad Saied <amir@gluegadget.com>
Amr Mohammed <merodiro@gmail.com>
Amrut Joshi <amrut.joshi@gmail.com>
Anand K. Mistry <anand@mistry.ninja>
Anders Pearson <anders@columbia.edu>
Andr Carvalho <asantosc@gmail.com>
Andre Nathan <andreth@gmail.com>
Andrea Spadaccini <spadaccio@google.com>
Andreas Auernhammer <aead@mail.de>
Andreas Jellinghaus <andreas@ionisiert.de> <anj@google.com>
Andreas Litt <andreas.litt@gmail.com>
Andrei Korzhhevskii <a.korzhhevskiy@gmail.com>
Andrei Tudor Clin <mail@acln.ro>
Andrei Vieru <euvieru@gmail.com>
Andres Erbsen <andreser@gmail.com>
Andrew Austin <andrewaclt@gmail.com>
Andrew Balholm <andybalholm@gmail.com>
Andrew Benton <andrewmbenton@gmail.com>
Andrew Bonventre <andybons@chromium.org>
Andrew Braunstein <awbraunstein@gmail.com>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt <andrew.ekstedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@gmail.com>
Andrew Lutomirski <andy@luto.us>
Andrew Pilloud <andrewpilloud@igneoussystems.com>
Andrew Pogrebovoy <absourd.noise@igneoussystems.com>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andreya.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Szeto <andrew@jabagawee.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrey Mirtchovski <mirtchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Walker <walkeraj@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Anit Gandhi <anitgandhi@gmail.com>
Anmol Sethi <anmol@aubble.com>
Anschel Schaffer-Cohen <anschelsc@gmail.com>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony.canino1@gmail.com>
Anthony Eufemio <anthony.eufemia@gmail.com>
Anthony Martin <ality@pbrane.org>
Anthony Sottili <asottili@umich.edu>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Antoine Martin <antoine97.martin@gmail.com>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Corey Thomasson <cthom.lists@gmail.com>
Cosmos Nicolaou <cnicolaou@google.com>
Costin Chirvasuta <ctin@google.com>
Craig Citro <craigcitro@gmail.com>
Cristian Staretu <unclejacksongmail.com@gmail.com>
Cuihtlaauc ALVARADO <cuihtlaauc.alvarado@orange.com>
Cyrill Schumacher <cyrril@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <42@dmathieu.com>
Damien Neil <dneil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@google.com>
Dan Jacques <dnj@google.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadas <dnadas@gmail.com>
Daniel Nephin <dnephin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel Skinner <daniel@dana.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daniela Petruzalek <daniela.petrruzalek@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darren Elwood <darren@textnode.com>
Darshan Parajuli <parajulidarshan@gmail.com>
Datong Sun <dndx@idndx.com>
Dave Borowitz <dborowitz@gmail.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <dj@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavofranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwen.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. Ibrahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
HAMANO Tsukasa <hamano@osstech.co.jp>
Han-Wen Nienhuys <hanwen@google.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hallazzang@gmail.com>
Harald Nordgren <haraldnordgren@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Hariharan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <moreno149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hauke Lffler <shloeffler@users.noreply.github.com>
Hvard Haugen <hvard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyuheng@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@gmail.com>
Heschi Kreininck <heschi@gmail.com>
Hilko Bengen <bengen@hilluzination.de>
Hiroaki Nakamura <hnakamura@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <ttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Hossein Sheikh Attar <hattar@gmail.com>
Hsin Tsao <tsao@gmail.com>
Hsin-Ho Yeh <yhh92u@gmail.com>
Hu Keping <hukeping@huawei.com>
Hugues Bruant <hugues.bruant@gmail.com>
Hyang-Ah Hana Kim <hakim@gmail.com> <hyangah@gmail.com>
Ian Cottrell <iancottrell@gmail.com>

Open Source Used In SMI 2021.01.0-Jan-2022  3510
Ian Gudger <ian@loosescre.ws>
Ian Kent <iankent85@gmail.com>
Ian Lance Taylor <iant@golang.org>
Ibrahim AshShohail <ibra.sho@gmail.com>
Icarus Sparry <golang@icarus.freeuk.com>
Iccha Sethi <icchasethi@gmail.com>
Idora Shinatose <idora.shinatose@gmail.com>
Igor Bernstein <igorbernstein@google.com>
Igor Dolzhikov <bluesriverz@gmail.com>
Igor Vashyst <ivashyst@gmail.com>
Ilya Tocar <ilya.tocar@intel.com>
INADA Naoki <songofacandy@gmail.com>
Inanc Gumus <m@inanc.io>
Ingo Gottwald <in.gottwald@gmail.com>
Ingo Krabbe <ikrabbe.ask@gmail.com>
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>
Ioannis Georgoulas <geototti21@hotmail.com>
Irfan Sharif <irfanmahmoudsharif@gmail.com>
Irieda Noboru <irieda@gmail.com>
Isaac Ardis <isaac.ardis@gmail.com>
Isaac Wagner <ibw@isaacwagner.me>
Iskander Sharipov <iskander.sharipov@intel.com> <quasilyte@gmail.com>
Issac Trolts <issactrots@google.com>
Ivan Babrou <ivan@cloudflare.com>
Ivan Bertona <ivan.bertona@gmail.com>
Ivan Krasin <krasin@golang.org>
Ivan Markin <sw@nogoegst.net>
Ivan Moscoso <moscoso@gmail.com>
Ivan Ukhov <ivan.ukhov@gmail.com>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcudogon@gmail.com>
Jack Britton <jackxbruton@gmail.com>
Jack Lindamood <jlindamo@justin.tv>
Jacob Baskin <jbaskin@gmail.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jae Kwon <jae@tendermint.com>
Jakob Borg <jakob@nym.se>
Jakob Weisblat <jakobw@mit.edu>
Jakub ajka <jcajka@redhat.com>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
James Aguilar <jaguilar@google.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@google.com>
James Clarke <jrtc27@jrtc27.com>
James Cowgill <James.Cowgill@imgtec.com>
James David Chalfant <james.chalfant@gmail.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
Joe Shaw <joe@joeshaw.org>
Joe Sylv< joesylv@gmail.com>
Joe Tsai <joetsai@digital-static.net>
Joel Sing <joel@sing.id.au> <jsing@google.com>
Joel Stemmer <jstemmer@google.com>
Joel Stemmer <stemmertech@gmail.com>
Joey Geiger <jgeiger@users.noreply.github.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
Johan Euphrosine <proppy@google.com>
Johan Sageryd <j@1616.se>
John Asmuth <jasmuth@gmail.com>
John Beisley <huin@google.com>
John C Barstow <jbowtie@amathaine.com>
John DeNero <denero@google.com>
John Dethridge <jcd@golang.org>
John Gibb <john gibb@gmail.com>
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>
John Howard Palevich <jack.palevich@gmail.com>
John Jeffery <jjeffery@sp.com.au>
John Jenkins <twodopeshaggy@gmail.com>
John Leidegren <john.leidegren@gmail.com>
John Newlin <jnewlin@gmail.com>
John Potocny <johnp@vividcortex.com>
John R. Lenton <jlenton@gmail.com>
John Schnake <schnake.john@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Johnny Luo <johnnyluo1980@gmail.com>
Jon Chen <jchen@justin.tv>
Jonas Bernoulli <jonas@bernoul.li>
Jonathan Allie <jonallie@gmail.com>
Jonathan Amsterdam <jba@gmail.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.github.com>
Jonathan Feinberg <feinberg@gmail.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhsue@gmail.com>
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>
Jonathan Nieder <jrn@gmail.com>
Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@gmail.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kieft< ikojba@gmail.com> <joop@kiefie.net>
Jordan Krage <sjmank88@gmail.com>
Kristopher Watts <traetox@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Kyoei Kadota <lufia@lufia.org>
Kyrillo Silin <silin@kyrylo.org>
L. Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lannm@gmail.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@gmail.com>
Leon Klingele <git@leonklingele.de>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@gmail.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@gmail.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukgeb.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maciej Dbski <maciejd@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <maiconscosta@gmail.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Gorgaokar <manishsgmail@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mr@gmail.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <neon@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freheit.com>
Marga Manterola <marga@google.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius Nuennerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@gmail.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrman <moehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <any.sk+git@gmail.com>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulyas <mgulyas86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapliski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieul.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <mne@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@gmail.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aiizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@gmail.com>
Thanabodee Charoenpiriyakij <wingynminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@n00dle.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@n00dle.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
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1.272 go-cache 2.1.0+incompatible

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1.275 hodgesds-perf-utils 0.0.7

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1.276 python-certifi 2018.1.18 2

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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.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
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
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
--------
.. toctree::
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/example-use-case

Download & Install
------------------
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/download

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


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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* `/opt/ws_local/PERMITS_SQL/1063014886_1592948799.99/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/docs/source/contents.rst`

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ASN.1 library for Python
------------------------

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.python.org/pypi/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.python.org/pypi/pyasn1/)
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 3.6
- 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) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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1.280 readable-stream 3.6.0

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goproperties - properties file decoder for Go

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Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@google.org>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
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Matthew Whisenhunt <matt.whisenhunt@gmail.com>
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Aaron Jacobs <jacobsa@google.com> <aaronjjacobs@gmail.com>
Alex Reece <awreece@gmail.com>
David Symonds <dsymonds@golang.org>
Ryan Barrett <ryanb@google.com>
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Ben Laurie <benl@google.com> <ben@links.org>
Chris Kennelly <ckennelly@google.com> <ckennelly@ckennelly.com>
David Drysdale <drysdale@google.com>
Deyan Bektchiev <deyan.bektchiev@venafi.com> <deyan@bektchiev.net>
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Emilia Kasper <ekasper@google.com>
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Fiaz Hossain <fiaz.hossain@salesforce.com>
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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import "strings"

var LicenseFilePrefix = []string{
    "licence", // UK spelling
    "license", // US spelling
    "copying",
    "unlicense",
    "copyright",
    "copyleft",
    "authors",
    "contributors",
}

var LegalFileSubstring = []string{
    "legal",
    "notice",
    "disclaimer",
    "patent",
    "third-party",
    "thirdparty",
}

func IsLicenseFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    return false
}
// IsLegalFile returns true if the file is likely to contain some type
// of legal declaration or licensing information
func IsLegalFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    for _, substring := range LegalFileSubstring {
        if strings.Contains(lowerfile, substring) {
            return true
        }
    }
    return false
}

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package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q    float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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Abhijeet Kasurde <akasurde@redhat.com>
abrarshivani <abrarshivani@users.noreply.github.com>
Adam Shannon <adamkshannon@gmail.com>
akutz <sakutz@gmail.com>
Alessandro Cortiana <alessandro.cortiana@gmail.com>
Alex Bozhenko <alexbozhenko@fb.com>
Alvaro Miranda <kikitux@gmail.com>
amandahala <amanda.andrade@serpro.gov.br>
Amanda H. L. de Andrade <amanda.andrade@serpro.gov.br>
Amit Bathla <abathla@vmware.com>
amit.bezalel <amit.bezalel@hpe.com>
Andrew Chin <andrew@andrewtchin.com>
Anfernee Yongkun Gui <agui@vmware.com>
aniketGslab <aniket.shinde@gslab.com>
Arran Walker <arran.walker@zopa.com>
Aryeh Weinreb <aryehweinreb@gmail.com>
Austin Parker <aparker@apprenda.com>
Balu Dontu <bdontu@vmware.com>
bastienbc <bastien.barbe.creuly@gmail.com>
Bob Killen <killen.bob@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org>
Bruce Downs <bruceadowns@gmail.com>
Cdric Blomart <cbloomart@gmail.com>
Chris Marchesi <chrism@vancluevertech.com>
Christian Hltje <docwhat@gerf.org>
Clint Greenwood <cgreenwood@vmware.com>
Danny Lockard <danny.lockard@banno.com>
Dave Tucker <dave@dtucker.co.uk>
Davide Agnello <dagnello@hp.com>
David Stark <dave@davidstark.name>
Deric Crago <deric.crago@gmail.com>
Doug MacEachern <dougm@vmware.com>
Eloy Coto <eloy.coto@gmail.com>
Eric Gray <egray@vmware.com>
Eric Yutao <eric.yutao@gmail.com>
Erik Hollensbe <github@hollensbe.org>
Fabio Rapposelli <fabio@vmware.com>
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forkbomber <forkbomber@users.noreply.github.com>
Gavin Gray <gavin@infinio.com>
Gavrie Philipson <gavrie.philipson@elastifile.com>
George Hicken <ghicken@vmware.com>
Gerrit Renker <Gerrit.Renker@ctl.io>
gthombare <gthombare@vmware.com>
Hasan Mahmood <mahmoodh@vmware.com>
Henrik Hodne <henrik@travis-ci.com>
Isaac Rodman <isaac@eyz.us>
Ivan Porto Carrero <icarrero@vmware.com>
Jason Kincl <jkincl@gmail.com>
Jeremy Canady <jcanady@jackhenry.com>
jeremy-clerc <jeremy@clerc.io>
Joo Pereira <joaodrp@gmail.com>
Jorge Sevilla <jorge.sevilla@rstor.io>
leslie-qiwa <leslie.qiwa@gmail.com>
Louie Jiang <jiangl@vmware.com>
Marc Carmier <mcarmier@gmail.com>
Matthew Cosgrove <matthew.cosgrove@dell.com>
Mevan Samarutunga <mevansam@gmail.com>
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Parham Alvani <parham.alvani@gmail.com>
Pieter Noordhuis <pnoordhuis@vmware.com>
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Sergey Ignatov <sergey.ignatov@jetbrains.com>
Steve Purcell <steve@sanityinc.com>
Takaaki Furukawa <takaaki.frkw@gmail.com>
tanishi <tanishi503@gmail.com>
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Yang Yang <yangy@vmware.com>
Yuya Kusakabe <yuya.kusakabe@gmail.com>
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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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BSON library for Go

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mgo - MongoDB driver for Go

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bmatsuo
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package simulator

Open Source Used In SMI 2021.01.0-Jan-2022 6151
import (  
"github.com/vmware/govmomi/object"  
"github.com/vmware/govmomi/vim25/methods"  
"github.com/vmware/govmomi/vim25/mo"  
"github.com/vmware/govmomi/vim25/soap"  
"github.com/vmware/govmomi/vim25/types"  
)  

// EvalLicense is the default license  
var EvalLicense = types.LicenseManagerLicenseInfo{     
LicenseKey: "00000-00000-00000-00000-00000",     
EditionKey: "eval",     
Name: "Evaluation Mode",     
Properties: []types.KeyAnyValue{     
    
    Key: "feature",     
    Value: types.KeyValue{     
        Key: "serialuri:2",     
        Value: "Remote virtual Serial Port Concentrator",     
    },     
    
    Key: "feature",     
    Value: types.KeyValue{     
        Key: "dvs",     
        Value: "vSphere Distributed Switch",     
    },     
    
},     

}

type LicenseManager struct {  
    mo.LicenseManager  
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {  
m := &LicenseManager{}  
m.Self = ref  
m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}  

if Map.IsVPX() {  
am := Map.Put(&LicenseAssignmentManager{}).Reference()  
m.LicenseAssignmentManager = &am  
}

return m  
}
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{
        }
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels: req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{
        }
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }

    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{
        }
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid

if req.EntityId != "" {
    if req.EntityId != Map.content().About.InstanceUuid {
        id := types.ManagedObjectReference{
            Type: "HostSystem",
            Value: req.EntityId,
        }

        if Map.Get(id) == nil {
            return body
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        }
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

Shell2Junit License Information

Feb, 2010

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Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <jjohn@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
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AES in libhcrypto

rijndael-alg-fst.c

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

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1.292 js-yaml 4.1.0

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1.293 x-text v0.3.6

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1.294 githubcomsirupsenlogrus v1.4.2

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1.295 monkey-http-daemon 1.7.0

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* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
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" @(#)bitstring.3 5.1 (Berkeley) 12/13/89
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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.

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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
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.

Found in path(s):
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* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/Makefile
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.\$Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"

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" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $

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1.297 ncw-swift 1.0.50

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1.298 common-ancestor-path 1.0.1

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1.299 utils 0.0.0-20191030222137-2b95a09bc58d

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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/EventListener.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/publicsuffix/PublicSuffixDatabase.java

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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Handshake.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/CacheStrategy.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/StreamAllocation.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/FaultHidingSink.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Authenticator.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/CookieJar.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/ConnectionSpecSelector.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/RouteException.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/proxy/NullProxySelector.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/io/FileSystem.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Cookie.java

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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/proxy/NullProxySelector.java

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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/Util.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpCodec.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http1/Http1Codec.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpHeaders.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/address/Address.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http1/Http1Codec.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/WebSocket.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/Jdk9Platform.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/RealWebSocket.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/CallServerInterceptor.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/UnrepeatableRequestBody.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/WebSocketListener.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache2/FileOperator.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache2/Relay.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/AndroidPlatform.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/TrustRootIndex.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/RetryAndFollowUpInterceptor.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/BasicTrustRootIndex.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/BasicCertificateChainCleaner.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/RealInterceptorChain.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/ConnectionSpec.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/WebSocketReader.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/WebSocketWriter.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/CertificatePinner.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/WebSocketProtocol.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/CacheRequest.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Header.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/ConscryptPlatform.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cookie/LegacyCookieJar.java

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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Stream.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpDate.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Reader.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/DistinguishedNameParser.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/CertificateChainCleaner.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/ConnectInterceptor.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/RealConnection.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/OptionalMethod.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/ConnectionPool.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Headers.java

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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Settings.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/OkHttpClient.java
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package cloud

import (  
  "bytes"  
  "io/ioutil"  
  "os"  
  "path/filepath"  
  "strings"  
  "testing"  
)

var sentinels = []string{  
  "Copyright",  
  "Google",  
  `Licensed under the Apache License, Version 2.0 (the "License");`,  
}

func TestLicense(t *testing.T) {  
t.Parallel()  
err := filepath.Walk('.', func(path string, fi os.FileInfo, err error) error {  
  if err != nil {  
    t.Errorf("failed walk: %s", path)  
    return err  
  }  
  if !fi.IsDir() {  
    return nil  
  }  
  for _, s := range sentinels {  
    pos := strings.Index(path, s)  
    if pos == -1 {  
      return fmt.Errorf("missing %s in %s", s, path)  
    }  
  }  
  return nil  
}  
err
if err != nil {
    return err
}

if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
}
if err != nil {
    t.Fatal(err)
}

1.302 spew 1.1.1
1.302.1 Available under license:
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1.303 ruby 2.5.1-1ubuntu1.10

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ccan/build_assert/build_assert.h
ccan/check_type/check_type.h
ccan/container_of/container_of.h
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regcomp.c:
regenc.[ch]:
regerror.c:
regint.h:
regparse.[ch]:
enc/ascii.c
cenc/big5.c
cenc/cp949.c
cenc/emac_mule.c
cenc/encdb.c
cenc/euc_ip.c
cenc/euc_kr.c
cenc/euc_tw.c
cenc/gb18030.c
cenc/gb2312.c
cenc/gbk.c
cenc/iso_8859_1.c
cenc/iso_8859_10.c
cenc/iso_8859_11.c
cenc/iso_8859_13.c
cenc/iso_8859_14.c
cenc/iso_8859_15.c
cenc/iso_8859_16.c
cenc/iso_8859_2.c
cenc/iso_8859_3.c
cenc/iso_8859_4.c
cenc/iso_8859_5.c
cenc/iso_8859_6.c
cenc/iso_8859_7.c
cenc/iso_8859_8.c
cenc/iso_8859_9.c
cenc/koi8_r.c
cenc/koi8_u.c
cenc/shift_jis.c
cenc/unicode.c
cenc/us_ascii.c
cenc/utf_16be.c
cenc/utf_16le.c
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A C-program for MT19937, with initialization improved 2002/2/10. Coded by Takuji Nishimura and Makoto Matsumoto. This is a faster version by taking Shawn Cokus's optimization, Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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strftime.c:
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missing/alloca.c:
missing/dup2.c:
missing/errno.c:
missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
missing/memmove.c:
missing/strchr.c:
missing/strerror.c:
missing/strstr.c:
missing/tgamma.c:
ext/date/date_strftime.c:
ext/digest/sha1/sha1.[ch]:
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= Contributors to Ruby

The following list might be incomplete. Feel free to add your name if your patch was accepted into Ruby.

== A

Ayumu AIZAWA (ayumin)
* committer

AKIYOSHI, Masamichi (akiyoshi)
* committer
* He had maintained the VMS support on 2003-2004.

Muhammad Ali
* wrote rdoc for Fiber

Minero Aoki (aamine)
* committer
* He is the maintainer of:
* fileutils
* net/http, net/https
* net/pop
* net/smtp
* racc
* ripper
* strscan

Wakou Aoyama (wakou)
* committer
* He was the maintainer of some standard libraries.

Koji Arai
* committer

arto
* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.
* Wrote patches for win32ole, gc.c, tmpdir.rb

Sergey Avseyev
* Added IO#pread and IO#pwrite.

== B

Daniel Berger
* a patch for irb
* documentation
* He wrote forwardable.rb

David Black (dblack)
* committer
* He is the maintainer of scanf

Ken Bloom
* a patch for REXML.

Oliver M. Bolzer
* a patch for soap

Alexey Borzenkov
* a patch for mkmf.rb

Evan Brodie
* a patch for documentation of Float#round

Richard Brown
* a patch for configure.in

Dirkjan Bussink
* a patch for date.rb

Daniel Bovensiepen
* documentation
* a patch for irb

== C

Brian Candler
* a patch for configure.in, net/telnet

keith cascio
* a patch for optparse.rb

Frederick Cheung
* a patch for test/ruby/test_symbol.rb

Christoph
* patches for set.rb

Sean Chittenden
* patches for net/http, cgi

William D. Clinger
* ruby_strtod is based on his paper.

== D

Ryan Davis (ryan)
* committer
* He wrote and is the maintainer of miniunit

Guy Decoux (ts)
* committer

Zach Dennis

Martin Duerst (duerst)
* committer
* M17N

Paul Duncan
* patches for rdoc

Alexander Dymo
* a patch for lib/benchmark.rb

== E

Yusuke Endoh (mame)
* committer
* He wrote and is the maintainer of base64 library (1.9)
* did much upon YARV compiler.

erlercw
* wrote Integer::gcd2

== F

Frank S.Fejes
* a patch for net/pop

Fundakowski Feldman
* a patch for process.c

Mauricio Fernandez
* patches for parse.y

David Flanagan (davidflanagan)
* committer
* M17N

Takeyuki Fujioka (xibbar)
* committer
* He is the maintainer of cgi/*

FUKUMOTO, Atsushi
* a patch for tracer.rb

Shota Fukumori (sorah)
* committer
* #4415 parallel unit/test

Tadayoshi Funaba (tafd)
* committer
* He wrote and is the maintainer of
date
* parsedate (1.8)
* He ported rational.rb and complex.rb, which 1.8 contains, into rational.c and complex.c of 1.9.

== G

David M. Gay
* ruby_strtod

Florian Gilcher
* documentation

GOTOU, Kentaro (gotoken)
* committer
* He wrote benchmark.rb
* He is the maintainer of:
benchmark.rb
* open3

GOTOU, Yuuzou (gotoyuzo)
* committer
James Edward Gray II (jeg2)
* committer
* He wrote the faster implementation of CSV and is the maintainer of csv.
* Wrote documentation for rdoc

== H

Phil Hagelberg
* patch for ruby-mode.el's documentation.

Kirk Haines (wyhaines)
* committer
* the maintainer of ruby_1_8_6 branch

Shinichiro Hamaji
* fixed memory leaks (marshal.c, string.c)

Shin-ichiro HARA
* the developer and the sysop of ruby-{dev,list,core,talk} archive.
* a patch for numeric.c

Chris Heath (traumdeutung)
* a patch for proc.c

HIROKAWA Hisashi
* fixed socket/socket.c

Daniel Hob
* He wrote:
  * SMTP-TLS support for net/smtp.
  * POP3S support

Eric Hodel (drbrain)
* committer
* He is the maintainer of:
  * rdoc
  * ri
  * rubygems

Erik Hollensbe
* a patch for delegate.rb

Johan Holmberg
* a patch for dir.c
* documentation

Erik Huelsmann
Dae San Hwang
* built a continuous integration environment on OpenSolaris.

== I

Nobuhiro IMAI
* a patch for logger.rb

"incorporate"
* a patch for sprintf.c

Keiju Ishitsuka (keiju)
* committer
* He wrote and is the maintainer of:
  * cmath.rb (1.9)
  * complex.rb (1.8)
  * e2mmmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
  * sync.rb
  * shell/*
  * thwait.rb
  * tracer.rb

== J

Curtis Jackson
* missing/dup2.c

Alan Johnson
* a patch for net/ftp

Lyle Johnson
* patches for nkf, BigDecimal, numeric.c

== K

Yoshihiro Kambayashi
* a patch for enc/trans/single_byte.trans.
* He wrote supports for some encodings.

Yutaka Kanemoto
* patches for common.mk, AIX AF_INET6 support
Motoyuki Kasahara
* He wrote getoptlong.rb

Masahiro Kawato
* a patch for shellwords.rb

Wataru Kimura
* a patch for configure.in

Michael Klishin
* patch for make help.

Noritada Kobayashi
* a patch for optparse.rb

Shigeo Kobayashi (shigek)
* committer
* He is the maintainer of bigdecimal

KONISHI, Hiromasa (H_Konishi)
* committer
* He had maintained the bcc32 support in 2004.

Kornelius "murphy" Kalnbach
* documentation

K.Kosako (kosako)
* committer
* He wrote Oniguruma.

Takehiro Kubo
* patches for dl 64bit support.

== L

Marc-Andre Lafortune (marcandre)
* committer
* patches for hash.c, array.c, thread.c, enumc, string.c, range.c and rdoc documentation.

Hongli Lai
* improved pstore.rb
* patch for tool/file2lastrev.rb.

raspberry lemon
* a patch for webrick/httpproxy.rb.

Christian Loew
* a patch for fileutils.rb
Shugo Maeda (shugo)
* committer
* A system administrator of ruby-lang.org servers.
* He wrote and is the maintainer of:
  * monitor.rb
  * net/ftp
  * net/imap

Stephan Maka (mathew)
* documentation

Yukihiro Matsumoto (matz)
* Matz -- the founder, language designer of Ruby.
* committer
* Ruby itself, most of Ruby.
* He is the maintainer of:
  * singleton
  * timeout
  * gdbm
  * sdbm

Konrad Meyer
* documentation

Mib Software
* missing/vsnprintf.c

Todd C. Miller
* missing/strlcat.c
* missing/strlcpy.c

MIYASAKA, Masaru
* a patch for cgi.rb

Stefan Monnier
* regex.c was fixed with based on his Emacs21 patch.

Marcel Moolenaar
* patches for eval.c and gc.c.

moonwolf
* a patch for REXML, xmlrpc

Hiroshi Moriyama
* a patch for yaml.
Kyosuke Morohashi
* a patch for gem_prelude.rb

Kenta Murata
* patches for json, bignum.c

Akinori MUSHA (knu)
* committer
* He wrote and is the maintainer of:
  * abbrev.rb
  * generator (1.8)
  * enumerator (1.8)
  * set
  * ipaddr.rb
  * digest/*
  * syslog
* He is the branch maintainer of ruby_1_8, the release manager of 1.8 series.

== N

Hidetoshi NAGAI (nagai)
* committer
* He is the maintainer of tk/*

Nobuyoshi Nakada (nobu)
* committer
* a.k.a. the “patch monster”
* He wrote and is the maintainer of:
  * optparse
  * stringio
  * io/wait
  * iconv

Satoshi Nakagawa
* patches for util.c

Narihiro Nakamura (nari)
* committer
* a.k.a. authorNari
* working at GC

NAKAMURA, Hiroshi (nahi)
* committer
* He is the maintainer of:
  * csv.rb (1.8)
  * logger.rb
  * soap/* (1.8)
* wsdl/* (1.8)
* xsd/* (1.8)

NAKAMURA, Usaku (usa)
* committer
* a.k.a. unak
* He is the maintainer of mswin32 and mswin64 support.

NARUSE, Yui (naruse)
* committer
* a.k.a. "nurse"
* Did much upon m17n.
* He is the maintainer of:
  * json
  * nkf

Christian Neukirchen
* a patch for webrick/httputils

Michael Neumann (mneumann)
* committer
* He is the maintainer of
  * xmlrpc (1.8)
  * gserver (1.8)

NISHIO Hirokazu
* wrote a patch for CVE-2010-0541

Kazuhiro NISHIYAMA (kazu)
* committer
* a.k.a. znz

Go Noguchi

Martin Nordholts
* misc/rdebug.el

nmu
* a patch for socket

== O

okkez
* He is a sysop of the Ruby Reference Manual Renewal Project.
* fixed ipaddr.rb, ext/etc

Haruhiko Okumura
* some of missing/* is based on his book:
* missing/erf.c
* missing/lgamma_r.c
* missing/tgamma.c

OMAE, jun
* a patch for debug.rb

Eugene Ossintsev
* documentation

== P

Heesob Park
* a patch for win32/win32.c.

pegacorn
* a patch for instruby.rb

== Q

== R

Gaston Ramos
* documentation

The Regents of the University of California
* missing/crypt.c
* missing/vsnprintf.c

Sam Roberts
* patch for socket
* documentation

Michal Rokos (michal)
* committer
* He was the maintainer of DJGPP support.

rubikitch
* a patch for io.c

Marcus Rueckert
* a patch for mkconfig.rb.

Run Paint Run Run
* patch for enc/unicode.c
* documentation

Sean Russell (ser)
* committer
* He wrote and is the maintainer of REXML.

== S

Kazuo Saito (ksaito)
* committer
* M17N

Tadashi Saito
* patches for test/ruby/test_math.rb, thread_*.c, bignum.c
* working upon BigDecimal.
* did much upon documentation

Masahiro Sakai
* a patch for io.c

Laurent Sansonetti
* a patch for tool/ytab.sed

Jeff Saracco
* documentation

Koichi Sasada (ko1)
* committer
* He wrote YARV.

Hugh Sasse
* a patch for net/http
* documentation

Charlie Savage
* a patch for win32/Makefile.sub

Michael Scholz
* a patch for ruby-mode.el

Arthur Schreiber
* patch for net/http and rdoc.

Masatoshi SEKI (seki)
* committer
* He wrote and is the maintainer of:
  * drb/
  * erb
  * rinda

Roman Shterenzon
* a patch for open-uri.

Kent Sibilev

Gavin Sinclair (gsinclair)
* committer

John W. Small
* He wrote gserver.rb

Yuki Sonoda (yugui)
* committer
* She is the maintainer of man/* manual pages and is the release manager of 1.9 series.
* She wrote prime.rb.
* A developer and a sysop of redmine.ruby-lang.org.

SOUMA, Yutaka
* a patch for pack.c.

Tatsuki Sugiura
* WebDAV support for net/http

Masaki Suketa (suke)
* committer
* He is the maintainer of win32ole

sheepman
* patches for ruby.c, thread.c, stringio, enum.c, webrick, net/http

Siena. (siena)
* committer

Kirill A. Shutemov
* a patch for parse.y

Darren Smith
* a patch for golf_prelude.rb

Richard M. Stallman
* missing/alloca.c

Robin Stocker
* documentation

Joshua Stowers
* a patch for array.c

Marcus Stollsteimer (stomar)
* committer
* a maintainer of www.ruby-lang.org
* patches for cgi (HTML5 tag maker), numeric.c, bigdecimal, ostruct.rb, prime.rb, and others
* documentation

Adam Strzelecki
* a patch for compile.c

Masashi Sumi
* improved net/pop.rb

Eric Sunshine
* NeXT OpenStep, Rhapsody support

Kouhei Sutou (kou)
* committer
* He wrote and is the maintainer of rss/*

David Symonds
* documentation

==

TAKANO Mitsuhiro (takano32)
* committer
* He is the maintainer of IA-64 support.
* BigDecimal

TAKAO, Kouji (kouji)
* committer
* He is the maintainer of readline.

Nathaniel Talbott (ntalbott)
* committer
* He was the maintainer of test/unit, runit, rubyunit.

TANAKA, Akira (akr)
* committer
* Did much upon m17n.
* And he is the maintainer of:
  * open-uri
  * pathname
  * pp
  * resolv-replace
  * resolv
  * time
  * tsort
Takaaki Tateishi (ttate)
* committer
* He was the maintainer of dl

Technorama Ltd. (technoroma)
* committer
* openssl

Andrew Thompson
* a patch for socket.c IRIX support.

Dave Thomas (dave)
* committer
* a.k.a. the Pragmatic Programmer.
* He wrote rdoc.

Tietew
* patches for win32 support

Masahiro Tomita
* a patch for cgi.rb

Jakub Travnik
* a patch for eval.c

Tom Truscott
* missing/crypt.c

== U

UEDA, Satoshi
* a patch for uri

Takaaki Uematsu (uema2)
* committer
* He was the maintainer of WinCE support.

UENO, Katsuhiro (katsu)
* committer
* He is the maintainer of zlib

Hajimu UMEMOTO
* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)
* committer
* a.k.a. mput.
* He is the branch maintainer of ruby_1_8_6 and ruby_1_8_7
* and is the release manager of 1.8.x-pXXX.

== V

Joel VanderWerf
* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen

== W

wanabe (wanabe)
* committer
* fixed YARV and Oniguruma.

Chun Wang
* a patch for time.rb

WATANABE, Hirofumi (eban)
* committer
* He is the maintainer of
  * ftools (1.8)
  * tmpdir
  * un
* Win32API

WATANABE, Tetsuya
* a patch for ruby.c

William Webber (wew)
* committer

Jim Weirich (jim)
* committer
* He wrote Rake.

Nathan Weizenbaum
* fixed misc/ruby-mode.el.

why the lukky stiff (why)
* committer
* He is the maintainer of syck

Caley Woods
* documentation
Gary Wright
* documentation

== X

== Y

Akira Yamada (akira)
* committer
* He is the maintainer of ruby related packages at Debian project.

Keita Yamaguchi
* patches for enum.c, parse.y
* documentation

Hirokazu Yamamoto (ocean)
* committer

Hirotaka Yoshioka
* a patch for improving SEGV handling

== Z

Aristarkh A Zagorodnikov
* a patch for io.c

Alexander Zavorine
* committer
* He is the maintainer for Symbian OS.

Chiyuan Zhang
* a patch for misc/ruby-mode.el.

Dee Zsombor (zunda)
* a patch for thread_pthread.c

Dan Zwell
* a patch for net/pop

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1.304 libio-socket-ssl-perl 2.060-3~ubuntu18.04.1

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=head1 NAME

IO::Socket::SSL - SSL sockets with IO::Socket interface

=head1 SYNOPSIS

use strict;
use IO::Socket::SSL;

# simple client
my $cl = IO::Socket::SSL->new('www.google.com:443');
print $cl "GET / HTTP/1.0\r\n\n";
print <$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:

- Essential Information About SSL/TLS
- Basic SSL Client
- Basic SSL Server
- Common Usage Errors
- Common Problems with SSL
- Using Non-Blocking Sockets
- Advanced Usage
- Integration Into Own Modules
- Description Of Methods

Additional documentation can be found in

- IO::Socket::SSL::Intercept - Doing Man-In-The-Middle with SSL
- IO::Socket::SSL::Utils - Useful functions for certificates etc

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:

=item Encryption

This part encrypts the data for transit between the communicating parties, so that nobody in between can read them. It also provides tamper resistance so that nobody in between can manipulate the data.

=item Identification

This part makes sure that you talk to the right peer. If the identification is done incorrectly it is easy to mount man-in-the-middle attacks, e.g. if Alice wants to talk to Bob it would be possible for Mallory to put itself in the middle, so that Alice talks to Mallory and Mallory to Bob. All the data would still be encrypted, but not end-to-end between Alice and Bob, but only between Alice and Mallory and then between Mallory and Bob. Thus Mallory would be able to read and modify all traffic between Alice and Bob.

Identification is the part which is the hardest to understand and the easiest to get wrong.

With SSL, the Identification is usually done with B<certificates> inside a B<PKI> (Public Key Infrastructure). These Certificates are comparable to an identity card, which contains information about the owner of the card. The card then is somehow B<signed> by the B<issuer> of the card, the B<CA> (Certificate Agency).

To verify the identity of the peer the following must be done inside SSL:

=item *

Get the certificate from the peer. If the peer does not present a certificate we cannot verify it.

=item *

Check if we trust the certificate, e.g. make sure it's not a forgery.

We believe that a certificate is not a fake if we either know the certificate already or if we B<trust> the issuer (the CA) and can verify the issuers.
signature on the certificate.
In reality there is often a hierarchy of certificate agencies and we only
directly trust the root of this hierarchy.
In this case the peer not only sends his own certificate, but also all
B<intermediate certificates>.
Verification will be done by building a B<trust path> from the trusted root up
to the peers certificate and checking in each step if the we can verify the
issuer's signature.

This step often causes problems because the client does not know the necessary
trusted root certificates. These are usually stored in a system dependent
CA store, but often the browsers have their own CA store.

=item *

Check if the certificate is still valid.
Each certificate has a lifetime and should not be used after that time because
it might be compromised or the underlying cryptography got broken in the mean
time.

=item *

Check if the subject of the certificate matches the peer.
This is like comparing the picture on the identity card against the person
representing the identity card.

When connecting to a server this is usually done by comparing the hostname used
for connecting against the names represented in the certificate.
A certificate might contain multiple names or wildcards, so that it can be used
for multiple hosts (e.g. *.example.com and *.example.org).

Although nobody sane would accept an identity card where the picture does not
match the person we see, it is a common implementation error with SSL to omit
this check or get it wrong.

=item *

Check if the certificate was revoked by the issuer.
This might be the case if the certificate was compromised somehow and now
somebody else might use it to claim the wrong identity.
Such revocations happened a lot after the heartbleed attack.

For SSL there are two ways to verify a revocation, CRL and OCSP.
With CRLs (Certificate Revocation List) the CA provides a list of serial numbers
for revoked certificates. The client somehow has to download the list
(which can be huge) and keep it up to date.
With OCSP (Online Certificate Status Protocol) the client can check a single
certificate directly by asking the issuer.
Revocation is the hardest part of the verification and none of today's browsers get it fully correct. But, they are still better than most other implementations which don't implement revocation checks or leave the hard parts to the developer.

When accessing a web site with SSL or delivering mail in a secure way the identity is usually only checked one way, e.g. the client wants to make sure it talks to the right server, but the server usually does not care which client it talks to.

But, sometimes the server wants to identify the client too and will request a certificate from the client which the server must verify in a similar way.

=head1 Basic SSL Client

A basic SSL client is simple:

```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,
# explicitly set hostname we should use for SNI
SSL_hostname => 'mx.example.com'
) or die $SSL_ERROR;

A more complete example for a simple HTTP client:

    my $client = IO::Socket::SSL->new(
        # where to connect
        PeerHost => "www.example.com",
        PeerPort => "https",

        # certificate verification - VERIFY_PEER is default
        SSL_verify_mode => SSL_VERIFY_PEER,

        # location of CA store
        # need only be given if default store should not be used
        SSL_ca_path => '/etc/ssl/certs', # typical CA path on Linux
        SSL_ca_file => '/etc/ssl/cert.pem', # typical CA file on BSD

        # or just use default path on system:
        IO::Socket::SSL::default_ca(), # either explicitly
        # or implicitly by not giving SSL_ca_*

        # easy hostname verification
        # It will use PeerHost as default name a verification
        # scheme as default, which is safe enough for most purposes.
        SSL_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 $client "GET / HTTP/1.0\r\n\r
";
    print <$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:

```perl
# inet server
my $server = IO::Socket::INET->new( # where to listen
  LocalAddr => '127.0.0.1',
  LocalPort => 8080,
  Listen => 10,
);

# accept client
my $client = $server->accept or die;

# SSL upgrade client (in new process/thread)
IO::Socket::SSL->start_SSL($client,
  SSL_server => 1,
  SSL_cert_file => 'cert.pem',
  SSL_key_file => 'key.pem',
) or die "$failed to ssl handshake: $SSL_ERROR";
```

Like with normal sockets, neither forking nor threading servers scale well. It is recommended to use non-blocking sockets instead, see L</"Using Non-Blocking Sockets">

=head1 Common Usage Errors

This is a list of typical errors seen with the use of L<IO::Socket::SSL>:

=over 4

=item *

Disabling verification with C<SSL_verify_mode>.

As described in L</"Essential Information About SSL/TLS">, a proper identification of the peer is essential and failing to verify makes Man-In-The-Middle attacks possible.
Nevertheless, lots of scripts and even public modules or applications disable verification, because it is probably the easiest way to make the thing work and usually nobody notices any security problems anyway.

If the verification does not succeed with the default settings, one can do the following:

=over 8
=item *

Make sure the needed CAs are in the store, maybe use C<SSL_ca_file> or C<SSL_ca_path> to specify a different CA store.

=item *

If the validation fails because the certificate is self-signed and that's what you expect, you can use the C<SSL_fingerprint> option to accept specific leaf certificates by their certificate or pubkey fingerprint.

=item *

If the validation failed because the hostname does not match and you cannot access the host with the name given in the certificate, you can use C<SSL_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.

See also L</"Using Non-Blocking Sockets">.

=item *

Expecting exactly the same behavior as plain sockets.

IO::Socket::SSL tries to emulate the usual socket behavior as good as possible,
but full emulation can not be done. Specifically a read on the SSL socket might
also result in a write on the TCP socket or a write on the SSL socket might
result in a read on the TCP socket. Also C<accept> and B<close> on the SSL
socket will result in writing and reading data to the TCP socket too.

Especially the hidden writes might result in a connection reset if the
underlying TCP socket is already closed by the peer. Unless signal PIPE is
explicitly handled by the application this will usually result in the
application crashing. It is thus recommended to explicitly IGNORE signal PIPE so
that the errors get propagated as EPIPE instead of causing a crash of the
application.

=item *

Set 'SSL_version' or 'SSL_cipher_list' to a "better" value.

L<IO::Socket::SSL> tries to set these values to reasonable, secure values which
are compatible with the rest of the world.
But, there are some scripts or modules out there which tried to be smart and
get more secure or compatible settings.
Unfortunately, they did this years ago and never updated these values, so they
are still forced to do only 'TLSv1' (instead of also using TLSv12 or TLSv11).
Or they set 'HIGH' as the cipher list and thought they were secure, but did not
notice that 'HIGH' includes anonymous ciphers, e.g. without identification of
the peer.

So it is recommended to leave the settings at the secure defaults which
L<IO::Socket::SSL> sets and which get updated from time to time to
better fit the real world.
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.

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.

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>.

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.
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 \texttt{IO::Socket::SSL} and \texttt{Net::SSLeay}, which can both be set with \texttt{$IO::Socket::SSL::DEBUG$}. The following debugs levels are defined, but used not in any consistent way:

=over 4

=item *

0 - No debugging (default).

=item *

1 - Print out errors from \texttt{IO::Socket::SSL} and ciphers from \texttt{Net::SSLeay}.

=item *

2 - Print also information about call flow from \texttt{IO::Socket::SSL} and progress information from \texttt{Net::SSLeay}.

=item *

3 - Print also some data dumps from \texttt{IO::Socket::SSL} and from \texttt{Net::SSLeay}.

=back

Also, \texttt{analyze-ssl.pl} from the ssl-tools repository at \texttt{https://github.com/noxxi/p5-ssl-tools} might be a helpful tool when debugging SSL problems, as do the \texttt{openssl} command line tool and a check with a different SSL implementation (e.g. a web browser).

The following problems are not uncommon:

=over 4

=item *

Bad server setup: missing intermediate certificates.

It is a regular problem that administrators fail to include all necessary certificates into their server setup, e.g. everything needed to build the trust chain from the trusted root.

If they check the setup with the browser everything looks ok, because browsers work around these problems by caching any intermediate certificates and apply them to new connections if certificates are missing.
But, fresh browser profiles which have never seen these intermediates cannot fill in the missing certificates and fail to verify; the same is true with \texttt{L<IO::Socket::SSL>}. 

=item *

Old versions of servers or load balancers which do not understand specific TLS versions or croak on specific data.

From time to time one encounters an SSL peer, which just closes the connection inside the SSL handshake. This can usually be worked around by downgrading the SSL version, e.g. by setting \texttt{C<SSL_version>}. Modern Browsers usually deal with such servers by automatically downgrading the SSL version and repeat the connection attempt until they succeed.

Worse servers do not close the underlying TCP connection but instead just drop the relevant packet. This is harder to detect because it looks like a stalled connection. But downgrading the SSL version often works here too.

A cause of such problems are often load balancers or security devices, which have hardware acceleration and only a minimal (and less robust) SSL stack. They can often be detected because they support much fewer ciphers than other implementations.

=item *

Bad or old OpenSSL versions.

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

=item *

Validation of client certificates fail.

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

=item *

Validation of self-signed certificate fails even if it is given with \texttt{C<SSL_ca*>} argument.

The \texttt{C<SSL_ca*>} arguments do not give a general trust store for arbitrary
 certificates but only specify a store for CA certificates which then can be used
to verify other certificates. This especially means that certificates which are
not a CA get simply ignored, notably self-signed certificates which do not also
have the CA-flag set.

This behavior of OpenSSL differs from the more general trust-store concept which
can be found in browsers and where it is possible to simply added arbitrary
certificates (CA or not) as trusted.

=back

=head1 Using Non-Blocking Sockets

If you have a non-blocking socket, the expected behavior on read, write, accept
or connect is to set C<$!> to EWOULDBLOCK if the operation cannot be completed
immediately. Note that EWOULDBLOCK is the same as EAGAIN on UNIX systems, but
is different on Windows.

With SSL, handshakes might occur at any time, even within an established
connection. In these cases it is necessary to finish the handshake before
you can read or write data. This might result in situations where you want to
read but must first finish the write of a handshake or where you want to write
but must first finish a read.
In these cases C<$!> is set to EAGAIN like expected, and additionally
C<$SSL_ERROR> is set to either SSL_WANT_READ or SSL_WANT_WRITE.
Thus if you get EWOULDBLOCK on a SSL socket you must check C<$SSL_ERROR> for
SSL_WANT_* and adapt your event mask accordingly.

Using readline on non-blocking sockets does not make much sense and I would
advise against using it.
And, while the behavior is not documented for other L<IO::Socket> classes, it
will try to emulate the behavior seen there, e.g. to return the received data
instead of blocking, even if the line is not complete. If an unrecoverable error
occurs it will return nothing, even if it already received some data.

Also, I would advise against using C<accept> with a non-blocking SSL object
because it might block and this is not what most would expect. The reason for
this is that C<accept> on a non-blocking TCP socket (e.g. L<IO::Socket::IP>,
L<IO::Socket::INET>..) results in a new TCP socket which does not inherit the
non-blocking behavior of the master socket. And thus, the initial SSL handshake
on the new socket inside C<IO::Socket::SSL::accept> will be done in a blocking
way. To work around this you are safer by doing a TCP accept and later upgrade the
TCP socket in a non-blocking way with C<start_SSL> and C<accept_SSL>.

my $cl = IO::Socket::SSL->new($dst);
$cl->blocking(0);
my $sel = IO::Select->new($cl);
while (1) {
    # with SSL, a call for reading n bytes does not result in reading of n
    # bytes from the socket, but instead it must read at least one full SSL
    # frame. If the socket has no new bytes, but there are unprocessed data
    # from the SSL frame can_read will block!

    # wait for data on socket
    $sel->can_read();

    # new data on socket or eof
    READ:
    # this does not read only 1 byte from socket, but reads the complete SSL
    # frame and then just returns one byte. On subsequent calls it than
    # returns more byte of the same SSL frame until it needs to read the
    # next frame.
    my $n = sysread( $cl, my $buf, 1);
    if ( ! defined $n ) {
        die $! if not ${EWOULDBLOCK};
        next if $SSL_ERROR == SSL_WANT_READ;
        if ( $SSL_ERROR == SSL_WANT_WRITE ) {
            # need to write data on renegotiation
            $sel->can_write;
            next;
        }
        die "something went wrong: $SSL_ERROR";
    } elsif ( ! $n ) {
        last; # eof
    } else {
        # read next bytes
        # we might have still data within the current SSL frame
        # thus first process these data instead of waiting on the underlying
        # socket object
        goto READ if $cl->pending; # goto sysread
        next; # goto $sel->can_read
    }
}

Additionally there are differences to plain sockets when using select, poll,
kqueue or similar technologies to get notified if data are available.
Relying only on these calls is not sufficient in all cases since unread data
might be internally buffered in the SSL stack. To detect such buffering
B<pending()> need to be used. Alternatively the buffering can be avoided by using
B<sysread> with the maximum size of an SSL frame. See L</"Common Usage Errors"> for details.
=head1 Advanced Usage

=head2 SNI Support

Newer extensions to SSL can distinguish between multiple hostnames on the same IP address using Server Name Indication (SNI).

Support for SNI on the client side was added somewhere in the OpenSSL 0.9.8 series, but with 1.0 a bug was fixed when the server could not decide about its hostname. Therefore client side SNI is only supported with OpenSSL 1.0 or higher in L<IO::Socket::SSL>.

With a supported version, SNI is used automatically on the client side, if it can determine the hostname from C<PeerAddr> or C<PeerHost> (which are synonyms in the underlying IO::Socket:: classes and thus should never be set both or at least not to different values).

On unsupported OpenSSL versions it will silently not use SNI.

The hostname can also be given explicitly given with C<SSL_hostname>, but in this case it will throw in error, if SNI is not supported.

To check for support you might call C<< IO::Socket::SSL->can_client_sni() >>.

On the server side, earlier versions of OpenSSL are supported, but only together with L<Net::SSLeay> version >= 1.50.

To check for support you might call C<< IO::Socket::SSL->can_server_sni() >>.

If server side SNI is supported, you might specify different certificates per host with C<SSL_cert*> and C<SSL_key*>, and check the requested name using C<get_servername>.

=head2 Talk Plain and SSL With The Same Socket

It is often required to first exchange some plain data and then upgrade the socket to SSL after some kind of STARTTLS command. Protocols like FTPS even need a way to downgrade the socket again back to plain.

The common way to do this would be to create a normal socket and use C<start_SSL> to upgrade and stop_SSL to downgrade:

my $sock = IO::Socket::INET->new(...) or die $!;
... exchange plain data on $sock until starttls command ...
IO::Socket::SSL->start_SSL($sock,%sslargs) or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... now $sock is again an IO::Socket::INET object ...

But, lots of modules just derive directly from L<IO::Socket::INET>.

While this base class can be replaced with L<IO::Socket::SSL>, these modules cannot easily support different base classes for SSL and plain data and switch between these classes on a starttls command.
To help in this case, `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 `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

`IO::Socket::SSL` behaves similarly to other `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 `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 `set_args_filter_hack`.

The notable exception is `SSL_verifycn_scheme`.
This should be set to the hostname verification scheme required by the module or protocol.

=head1 Description Of Methods

`IO::Socket::SSL` inherits from another `IO::Socket` module. The choice of the super class depends on the installed modules:

=over 4

=item *

=item *

If `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 \texttt{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 \texttt{L\<IO::Socket::INET\>}, which is a perl core module. With \texttt{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 \texttt{C\<Domain\>} or \texttt{C\<Family\>} option with the value \texttt{AF_INET} as described in \texttt{L\<IO::Socket::IP\>}. Alternatively you can enforce IPv4 globally by loading \texttt{L\<IO::Socket::SSL\>} with the option 'inet4', in which case it will use the IPv4 only class \texttt{L\<IO::Socket::INET\>} as the super class.

\texttt{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 \texttt{C\<$SSL\_ERROR\>} will be set. If the error occurred on an existing SSL socket, the method \texttt{C\<errstr\>} will give access to the latest socket specific error. Both \texttt{C\<$SSL\_ERROR\>} and the \texttt{C\<errstr\>} method give a dualvar similar to \texttt{C\<$!\>}, e.g. providing an error number in numeric context or an error description in string context.

=item \texttt{B\<new(...)>}

Creates a new \texttt{L\<IO::Socket::SSL\>} object. You may use all the friendly options that came bundled with the super class (e.g. \texttt{L\<IO::Socket::IP\>}, \texttt{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.

=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::Utils::PEM_xxx2cert>) with C<SSL_ca>. These will be added to the CA store before path and file and thus take precedence.

If neither SSL_ca, nor SSL_ca_file or SSL_ca_path are set it will use C<default_ca()> to determine the user-set or system defaults.

If you really don't want to set a CA set SSL_ca_file or SSL_ca_path to C<undef> or SSL_ca to an empty list. (unfortunately C<''> is used by some modules using L<IO::Socket::SSL> when CA is not explicitly given).

=item SSL_client_ca | SSL_client_ca_file

If verify_mode is VERIFY_PEER on the server side these options can be used to set the list of acceptable CAs for the client. This way the client can select they required certificate from a list of certificates.

The value for these options is similar to C<SSL_ca> and C<SSL_ca_file>.

=item SSL_fingerprint

Sometimes you have a self-signed certificate or a certificate issued by an unknown CA and you really want to accept it, but don't want to disable verification at all. In this case you can specify the fingerprint of the certificate as C<'algo$hex_fingerprint'>. C<algo> is a fingerprint algorithm supported by OpenSSL, e.g. 'sha1','sha256'... and C<hex_fingerprint> is the hexadecimal representation of the binary fingerprint.

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>.

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>>.

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',  
    "bar.example.org" => 'bar-cert.pem',  
    # used when nothing matches or client does not support SNI  
    "" => 'default-cert.pem',
}
SSL_key_file => {  
    "foo.example.org" => 'foo-key.pem',  
    "bar.example.org" => 'bar-key.pem',  
    # used when nothing matches or client does not support SNI  
    "" => 'default-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' or 'TLSv1_2' restrict handshake and protocol to the specified version.
All values are case-insensitive. Instead of 'TLSv1_1' and 'TLSv1_2' one can also use 'TLSv11' and 'TLSv12'. Support for 'TLSv1_1' and 'TLSv1_2' 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<http://www.openssl.org/docs/apps/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

If you want Diffie-Hellman key exchange you need to supply a suitable file here or use the SSL_dh parameter. See dhparam command in openssl for more information.
To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve.

If neither C<SSL_dh_file> nor C<SSL_dh> is 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

If you want Elliptic Curve Diffie-Hellmann key exchange you need to supply the OID or NID of a suitable curve (like 'prime256v1') here.
To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve.

This parameter defaults to 'prime256v1' (builtin of OpenSSL) to offer ECDH key exchange by default. If you don't want this explicitly set it to undef.

You can check if ECDH support is available by calling C<< IO::Socket::SSL->can_ecdh >>.

=item SSL_verify_mode
This option sets the verification mode for the peer certificate.
You may combine SSL_VERIFY_PEER (verify_peer), SSL_VERIFY_FAIL_IF_NO_PEER_CERT
(fail verification if no peer certificate exists; ignored for clients),
SSL_VERIFY_CLIENT_ONCE (verify client once; ignored for clients).
See OpenSSL man page for SSL_CTX_set_verify for more information.

The default is SSL_VERIFY_NONE for server (e.g. no check for client
certificate) and SSL_VERIFY_PEER for client (check server certificate).

=item SSL_verify_callback

If you want to verify certificates yourself, you can pass a sub reference along
with this parameter to do so. When the callback is called, it will be passed:

=over 4
=item 1.
a true/false value that indicates what OpenSSL thinks of the certificate,

=item 2.
a C-style memory address of the certificate store,

=item 3.
a string containing the certificate's issuer attributes and owner attributes, and

=item 4.
a string containing any errors encountered (0 if no errors).

=item 5.
a C-style memory address of the peer's own certificate (convertible to
PEM form with Net::SSLeay::PEM_get_string_X509()).

=item 6.
The depth of the certificate in the chain. Depth 0 is the leaf certificate.

=back

The function should return 1 or 0, depending on whether it thinks the
certificate is valid or invalid. The default is to let OpenSSL do all of the
busy work.

The callback will be called for each element in the certificate chain.

See the OpenSSL documentation for SSL_CTX_set_verify for more information.

=item SSL_verifycn_scheme
The scheme is used to correctly verify the identity inside the certificate by using the hostname of the peer.
See the information about the verification schemes in B<verify_hostname>.

If you don't specify a scheme it will use 'default', but only complain loudly if the name verification fails instead of letting the whole certificate verification fail. THIS WILL CHANGE, e.g. it will let the certificate verification fail in the future if the hostname does not match the certificate !!!! To override the name used in verification use B<SSL_verifycn_name>.

The scheme 'default' is a superset of the usual schemes, which will accept the hostname in common name and subjectAltName and allow wildcards everywhere. While using this scheme is way more secure than no name verification at all you better should use the scheme specific to your application protocol, e.g. 'http', 'ftp'...

If you are really sure, that you don't want to verify the identity using the hostname you can use 'none' as a scheme. In this case you'd better have alternative forms of verification, like a certificate fingerprint or do a manual verification later by calling B<verify_hostname> yourself.

=item SSL_verifycn_publicsuffix

This option is used to specify the behavior when checking 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 built-in 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

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If you want to verify that the peer certificate has not been revoked by the signing authority, set this value to true. OpenSSL will search for the CRL in your SSL_ca_path, or use the file specified by SSL_crl_file. See the Net::SSLeay documentation for more details. Note that this functionality appears to be broken with OpenSSL < v0.9.7b, so its use with lower versions will result in an error.

=item SSL_crl_file

If you want to specify the CRL file to be used, set this value to the pathname to be used. This must be used in addition to setting SSL_check_crl.

=item SSL_ocsp_mode

Defines how certificate revocation is done using OCSP (Online Status Revocation Protocol). The default is to send a request for OCSP stapling to the server and if the server sends an OCSP response back the result will be used.

Any other OCSP checking needs to be done manually with C<ocsp_resolver>.

The following flags can be combined with C<|>:

=over 8

=item SSL_OCSP_NO_STAPLE

Don't ask for OCSP stapling.
This is the default if SSL_verify_mode is VERIFY_NONE.

=item SSL_OCSP_TRY_STAPLE

Try OCSP stapling, but don't complain if it gets no stapled response back.
This is the default if SSL_verify_mode is VERIFY_PEER (the default).

=item SSL_OCSP_MUST_STAPLE

Consider it a hard error, if the server does not send a stapled OCSP response back. Most servers currently send no stapled OCSP response back.

=item SSL_OCSP_FAIL_HARD

Fail hard on response errors, default is to fail soft like the browsers do.
Soft errors mean, that the OCSP response is not usable, e.g. no response, error response, no valid signature etc.
Certificate revocations inside a verified response are considered hard errors in any case.
Soft errors inside a stapled response are never considered hard, e.g. it is expected that in this case an OCSP request will be send to the responsible OCSP responder.

=item SSL_OCSP_FULL_CHAIN

This will set up the C<ocsp_resolver> so that all certificates from the peer chain will be checked, otherwise only the leaf certificate will be checked against revocation.

=back

=item SSL_ocsp_staple_callback

If this callback is defined, it will be called with the SSL object and the OCSP response handle obtained from the peer, e.g. C<<$cb->($ssl,$resp)>>. If the peer did not provide a stapled OCSP response the function will be called with C<$resp=undef>. Because the OCSP response handle is no longer valid after leaving this function it should not by 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::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.

=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->($data,$key_name) >> where C<$data> is the argument given to SSL_ticket_keycb (or undef) and C<$key_name> depends on the mode:

=over 8

=item encrypt ticket

If a ticket needs to be encrypted the callback will be called without C<$key_name>. In this case it should return C<<($current_key,$current_key_name)>> where C<$current_key> is the current key (32 byte random data) and C<$current_key_name> the name associated with this key (exactly 16 byte). This C<$current_key_name> will be incorporated into the ticket.

=item decrypt ticket

If a ticket needs to be decrypted the callback will be called with C<$key_name> as found in the ticket. It should return C<<($key,$current_key_name)>> where C<$key> is the key associated with the given C<$key_name> and C<$current_key_name> the name associated with the currently active key. If C<$current_key_name> is different from the given C<$key_name> the callback will be called again to re-encrypt the ticket with the currently active key.

If no key can be found which matches the given C<$key_name> then this function should return nothing (empty list).

This mechanism should be used to limit the life time for each key encrypting the ticket. Compromise of a ticket encryption key might lead to decryption of SSL sessions which used session tickets protected by this key.

=back

Example:

Net::SSLeay::RAND_bytes(my $oldkey,32);
Net::SSLeay::RAND_bytes(my $newkey,32);
my $oldkey_name = pack("a16",'oldsecret');
my $newkey_name = pack("a16","newsecret");

my @keys = (
my $keycb = [ sub {
    my ($mykeys,$name) = @_;

    # return (current_key, current_key_name) if no name given
    return ($mykeys->[0][1],$mykeys->[0][0]) if ! $name;

    # return (matching_key, current_key_name) if we find a key matching
    # the given name
    for(my $i = 0; $i<@$mykeys; $i++) {
        next if $name ne $mykeys->[i][0];
        return ($mykeys->[i][1],$mykeys->[0][0]);
    }

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

my $srv = IO::Socket::SSL->new(..., SSL_ticket_keycb => $keycb);

=back

=item B<accept>

This behaves similar to the accept function of the underlying socket class, but additionally does the initial SSL handshake. But because the underlying socket class does return a blocking file handle even when accept is called on a non-blocking socket, the SSL handshake on the new file object will be done in a blocking way. Please see the section about non-blocking I/O for details. If you don't like this behavior you should do accept on the TCP socket and then upgrade it with C<start_SSL> later.

=item B<connect(...)>

This behaves similar to the connect function but also does an SSL handshake. Because you cannot give SSL specific arguments to this function, you should better either use C<new> to create a connect SSL socket or C<start_SSL> to upgrade an established TCP socket to SSL.

=item B<close(...)>

Contrary to a close for a simple INET socket a close in SSL also mandates a proper shutdown of the SSL part. This is done by sending a close notify message by both peers.
A naive implementation would thus wait until it receives the close notify message from the peer - which conflicts with the commonly expected semantic that a close will not block. The default behavior is thus to only send a close notify but not wait for the close notify of the peer. If this is required C<SSL_fast_shutdown> need to be explicitly set to false.

There are also cases where a SSL shutdown should not be done at all. This is true for example when forking to let a child deal with the socket and closing the socket in the parent process. A naive explicit C<close> or an implicit close when destroying the socket in the parent would send a close notify to the peer which would make the SSL socket in the client process unusable. In this case an explicit C<close> with C<SSL_no_shutdown> set to true should be done in the parent process.

For more details and other arguments see C<stop_SSL> which gets called from C<close> to shutdown the SSL state of the socket.

=back

=item B<sysread( BUF, LEN, [ OFFSET ] )>

This function behaves from the outside the same as B<sysread> in other L<IO::Socket> objects, e.g. it returns at most LEN bytes of data. But in reality it reads not only LEN bytes from the underlying socket, but at a single SSL frame. It then returns up to LEN bytes it decrypted from this SSL frame. If the frame contained more data than requested it will return only LEN data, buffer the rest and return it on further read calls.

This means, that it might be possible to read data, even if the underlying socket is not readable, so using poll or select might not be sufficient.

sysread will only return data from a single SSL frame, e.g. either the pending data from the already buffered frame or it will read a frame from the underlying socket and return the decrypted data. It will not return data spanning several SSL frames in a single call.

Also, calls to sysread might fail, because it must first finish an SSL handshake.

To understand these behaviors is essential, if you write applications which use event loops and/or non-blocking sockets. Please read the specific sections in this documentation.

=item B<syswrite( BUF, [ LEN, [ OFFSET ] ] )>

This functions behaves from the outside the same as B<syswrite> in other L<IO::Socket> objects, e.g. it will write at most LEN bytes to the socket, but there is no guarantee, that all LEN bytes are written. It will return the number
of bytes written.
Because it basically just calls SSL_write from OpenSSL syswrite will write at most a single SSL frame. This means, that no more than 16,384 bytes, which is the maximum size of an SSL frame, will be written at once.

For non-blocking sockets SSL specific behavior applies.
Please read the specific section in this documentation.

=item B<peek( BUF, LEN, [ OFFSET ])>

This function has exactly the same syntax as B<sysread>, and performs nearly the same task but will not advance the read position so that successive calls to peek() with the same arguments will return the same results. This function requires OpenSSL 0.9.6a or later to work.

=item B<pending()>

This function gives you the number of bytes available without reading from the underlying socket object. This function is essential if you work with event loops, please see the section about polling SSL sockets.

=item B<get_fingerprint([algo,certificate,pubkey])>

This methods returns the fingerprint of the given certificate in the form C<algo$digest_hex>, where C<algo> is the used algorithm, default 'sha256'. If no certificate is given the peer certificate of the connection is used. If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate as C<algo$pub$digest_hex>.

=item B<get_fingerprint_bin([algo,certificate,pubkey])>

This methods returns the binary fingerprint of the given certificate by using the algorithm C<algo>, default 'sha256'. If no certificate is given the peer certificate of the connection is used. If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate.

=item B<get_cipher()>

Returns the string form of the cipher that the IO::Socket::SSL object is using.

=item B<get_sslversion()>

Returns the string representation of the SSL version of an established connection.

=item B<get_sslversion_int()>
Returns the integer representation of the SSL version of an established connection.

=item B<get_session_reused()>

This returns true if the session got reused and false otherwise. Note that with a reused session no certificates are send within the handshake and no ciphers are offered and thus functions which rely on this might not work.

=item B<dump_peer_certificate()>

Returns a parsable string with select fields from the peer SSL certificate. This method directly returns the result of the dump_peer_certificate() method of Net::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 used a cached version, but check again in case the certificate of the connection has changed due to renegotiation.

The following fields can be queried:

=over 8

=item authority (alias issuer)

The certificate authority which signed the certificate.

=item owner (alias subject)

The owner of the certificate.

=item commonName (alias cn) - only for Net::SSLeay version >=1.30

The common name, usually the server name for SSL certificates.

=item 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.
This is similar to \texttt{C<peer_certificate>} but will return the site's own certificate. The same arguments for \texttt{B<$field>} can be used.
If no \texttt{B<$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.

This returns all the certificates sent by the peer, e.g. first the peer's own certificate and then the rest of the chain. You might use \texttt{B<CERT_asHash>} from \texttt{L<IO::Socket::SSL::Utils>} to inspect each of the certificates.

This function depends on a version of \texttt{Net::SSLey >= 1.58}.

This gives the name requested by the client if Server Name Indication (SNI) was used.

This verifies the given hostname against the peer certificate using the given scheme. Hostname is usually what you specify within the PeerAddr. See the \texttt{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):

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.
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_en: 0|always|when_only

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Determines if the common name gets checked. If ‘always’ it will always be checked (like in ldap), if ‘when_only’ it will only be checked if no names are given in subjectAltNames (like in http), for any other values the common name will not be checked.

=item wildcards_in_alt: 0|'full_label'|'anywhere'

Determines if and where wildcards in subjectAltNames are possible. If 'full_label' only cases like *.example.org will be possible (like in ldap), for 'anywhere' www*.example.org is possible too (like http), dangerous things like but www.*.org or even '*' will not be allowed.
For compatibility with older versions 'leftmost' can be given instead of 'full_label'.

=item wildcards_in_cn: 0|'full_label'|'anywhere'

Similar to wildcards_in_alt, but checks the common name. There is no predefined scheme which allows wildcards in common names.

=item ip_in_cn: 0|1|4|6

Determines if an IP address is allowed in the common name (no wildcards are allowed). If set to 4 or 6 it only allows IPv4 or IPv6 addresses, any other true value allows both.

=item callback: \\
coderef

If you give a subroutine for verification it will be called with the arguments ($hostname,$commonName,@subjectAltNames), where hostname is the name given for verification, commonName is the result from peer_certificate('cn') and subjectAltNames is the result from peer_certificate('subjectAltNames').

All other arguments for the verification scheme will be ignored in this case.

=back

=item 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 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>. 
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.

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.

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
=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 maybe del_session like IO::Socket::SSL::Session_Cache does).
See the SSL_session_cache option of new() for more details.
Note that this sets the default cache globally, so use with caution.

=item B<IO::Socket::SSL::set_defaults(%args)>

With this function one can set defaults for all SSL_* parameter used for creation of the context, like the SSL_verify* parameter. Any SSL_* parameter can be given or the following short versions:

=over 8
=item mode - SSL_verify_mode
=item callback - SSL_verify_callback
=item scheme - SSL_verifycn_scheme
=item name - SSL_verifycn_name
=back
=item B<IO::Socket::SSL::set_client_defaults(%args)>

Similar to C<set_defaults>, but only sets the defaults for client mode.

=item B<IO::Socket::SSL::set_server_defaults(%args)>

Similar to C<set_defaults>, but only sets the defaults for server mode.

=item B<IO::Socket::SSL::set_args_filter_hack('&code|use_defaults')>

Sometimes one has to use code which uses unwanted or invalid arguments for SSL, typically disabling SSL verification or setting wrong ciphers or SSL versions. With this hack it is possible to override these settings and restore sanity.
Example:

IO::Socket::SSL::set_args_filter_hack( sub {
  my ($is_server,$args) = @_;
  if ( ! $is_server ) {
    
    mod_perl scripts).

# client settings - enable verification with default CA
# and fallback hostname verification etc
delete @{$args}{qw(
SSL_verify_mode
SSL_ca_file
SSL_ca_path
SSL_verifycn_scheme
SSL_version
});
# and add some fingerprints for known certs which are signed by
# unknown CAs or are self-signed
$args->{SSL_fingerprint} = ...
}));

With the short setting C<set_args_filter_hack('use_defaults')> it will prefer
the default settings in all cases. These default settings can be modified with
C<set_defaults>, C<set_client_defaults> and C<set_server_defaults>.

=back

The following methods are unsupported (not to mention futile!) and
IO::Socket::SSL will emit a large CROAK() if you are silly enough to use them:

=over 4

=item truncate

=item stat

=item ungetc

=item setbuf

=item setvbuf

=item fdopen

=item send/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.

=back

=head1 DEPRECIATIONS
The following functions are deprecated and are only retained for compatibility:

=over 2

=item context_init()

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

=item socketToSSL() and socket_to_SSL()

use IO::Socket::SSL->start_SSL() instead

=item kill_socket()

use close() instead

=item get_peer_certificate()

use the peer_certificate() function instead.
Used to return X509_Certificate with methods subject_name and issuer_name.
Now simply returns $self which has these methods (although deprecated).

=item issuer_name()

use peer_certificate( 'issuer' ) instead

=item subject_name()

use peer_certificate( 'subject' ) instead

=back

=head1 EXAMPLES

See the 'example' directory, the tests in 't' and also the tools in 'util'.

=head1 BUGS

If you use IO::Socket::SSL together with threads you should load it (e.g. use or require) inside the main thread before creating any other threads which use it. This way it is much faster because it will be initialized only once. Also there are reports that it might crash the other way.

Creating an IO::Socket::SSL object in one thread and closing it in another thread will not work.
IO::Socket::SSL does not work together with Storable::fd_retrieve/fd_store. See BUGS file for more information and how to work around the problem.

Non-blocking and timeouts (which are based on non-blocking) are not supported on Win32, because the underlying IO::Socket::INET does not support non-blocking on this platform.

If you have a server and it looks like you have a memory leak you might check the size of your session cache. Default for Net::SSLeay seems to be 20480, see the example for SSL_create_ctx_callback for how to limit it.

TLS 1.3 support regarding session reuse is incomplete.

=head1 SEE ALSO

IO::Socket::INET, IO::Socket::INET6, IO::Socket::IP, Net::SSLeay.

=head1 THANKS

Many thanks to all who added patches or reported bugs or helped IO::Socket::SSL another way. Please keep reporting bugs and help with patches, even if they just fix the documentation.

Special thanks to the team of Net::SSLeay for the good cooperation.

=head1 AUTHORS

Steffen Ullrich, <sullr at cpan.org> is the current maintainer.

Peter Behroozi, <behrooz at fas.harvard.edu> (Note the lack of an "i" at the end of "behrooz")

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

Patches incorporated from various people, see file Changes.

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abstract: 'Nearly transparent SSL encapsulation for IO::Socket::INET.'

author:
- 'Steffen Ullrich <sullr@cpan.org>, Peter Behroozi, Marko Asplund'

buildRequires:
  ExtUtils::MakeMaker: '0'

configureRequires:
  ExtUtils::MakeMaker: '0'

dynamicConfig: 1

generatedBy: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'

license: perl

metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'

name: IO-Socket-SSL

noIndex:
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
  license: http://dev.perl.org/licenses/
  repository: https://github.com/noxxi/p5-io-socket-ssl
  version: '2.060'

x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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* /opt/cola/permits/1155785379_1619044975.13/0/libio-socket-ssl-perl-2-060-orig-1-tar-gz/IO-Socket-SSL-2.060/META.yml

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1.305 lxml 4.2.1-1ubuntu0.4

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1.306 go-runtime 1.10

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# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate CLA was used.
#
# Names should be added to this file like so:
# Individual's name <submission email address>
# Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
#
# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron France <aaron.l.france@gmail.com>
Andres Erbsen <andreser@google.com>
Andrew Austin <andrewacclt@gmail.com>
Andrew Balholm <andybalholm@gmail.com>
Andrew Benton <andrewmbenton@gmail.com>
Andrew Bonventre <andybons@chromium.org>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt <andrew.ekstedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@google.com>
Andrew Lutomirski <andy@luto.us>
Andrew Pilloud <andrewpilloud@igneoussystems.com>
Andrew Pogrebnuy <absourd.noise@igneoussystems.com>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrejradev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Szeto <andrew@jabagawee.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrey Mirchovski <mirchovski@gmail.com>
Andrey Petrov <andreypetrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>
Andy Maloney <asmaloney@gmail.com>
Andy Walker <walkeraj@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bullfone <mbullfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Anmol Sethi <anmol@about.com>
Anschel Schaffer-Cohen <anschelsc@gmail.com>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony.canino1@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony Martin <ality@pbrane.org>
Anthony Sottile <asottile@umich.edu>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Antoine Martin <antoine97.martin@gmail.com>
Antonio Bibiano <antbbn@gmail.com>
Antonio Murdaca <runcom@redhat.com>
Carl Jackson <carl@stripe.com>
Carl Johnson <me@carlmjohnson.net>
Carl Mastrangelo <notcarl@google.com>
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>
Carlisia Campos <carlisia@grokingtech.io>
Carlo Alberto Ferraris <cafxx@strayorange.com>
Carlos Castillo <cookieo9@gmail.com>
Carlos Cirello <uldericofilho@gmail.com>
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>
Carolyn Van Slyck <me@carolynvanslyck.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <cnicutar@google.com>
Catalin Patulea <catalinp@google.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
ChaitShushan <chaishushan@gmail.com>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles L. Dorian <eldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Cherry Zhang <cherryyz@google.com>
Chew Choon Keat <choonkeat@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Lennert <calennert@gmail.com>
Chris Manghane <cmang@golang.org>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christine Hansmann <chhansmann@gmail.com>
Christoffe Buchholz <christoffer.buchholz@gmail.com>
Christoph Hack <christoph@tux21b.org>
Daniel Skinner <daniel@dasac.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daniela Petruzalek <daniela.petrzalek@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darren Elwood <darren@textnode.com>
Datong Sun <dndx@idndx.com>
Dave Borowitz <dborowitz@google.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@google.com>
David Brophy <dave@brophy.uk>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Chase <drcase@google.com>
David Covert <davidcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com>
David du Colombier <0intro@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@google.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dSYMonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Titarenco <david.titarenco@gmail.com>
David Volquartz Lebech <david@lebech.info>
Davies Liu <davies.liu@gmail.com>
Davor Kapsa <davor.kapsa@gmail.com>
Dean Prichard <dean.pritchard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Denis Bernard <db047h@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Uggedal <eivind@uggedal.com>
Elbert Fliek <efliek@gmail.com>
Elena Grahovac <elena@grahovac.me>
Elias Naur <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Emerson Lin <linyintor@gmail.com>
Emil Hessman <c.emil.hessman@gmail.com> <emil@hessman.se>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eoghan Sherry <ejsherry@gmail.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@google.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Erik Aigner <aigner.erik@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@google.com>
Erik Westrup <erik.westrup@gmail.com>
Ernest Chiang <ernest_chiang@htc.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@google.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <euank@euank.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@gmail.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Evan Kroske <evankroske@gmail.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Polyakov <zbr@ioremap.net>
Ewan Chou <coocood@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedf@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fshahriar@gmail.com>
Federico Simoncelli <fsimonce@redhat.com>
Fedor Indutny <fedor@indutny.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Geisendrfer <haimuiba@gmail.com>
Filip Gruszczynski <gruszczy@gmail.com>
Filippo Valsorda <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Ueckermann <florian@ueckermann-online.de> <f1@ueckermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francisco Claude <fclaude@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscosouza@gmail.com>
Frank Somers <fsmers@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Frithjof Schulze <schulze@math.uni-hannover.de> <sf@frithjof@gmail.com>
Frits van Bommel <fvbommel@gmail.com>
Fumitoshi Ukai <ukai@google.com>
Gaal Yahas <gaal@google.com>
Gabriel Arthr Ptursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Russell <gabriel.russell@gmail.com>
Gareth Paul Jones <gpj@foursquare.com>
Garret Kelly <gdk@google.com>
Garrick Evans <garrick@google.com>
Gary Burd <gary@beagledreams.com> <garry.burd@gmail.com>
Gary Elliott <garyelliott@google.com>
Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Geert-Johan Riemer <gjr19912@gmail.com>
Gengliang Wang <ltnwgl@gmail.com>
Geoff Berry <gberry.qdt@qualcommdatacenter.com>
Geoffroy Lorieux <lorieux.g@gmail.com>
Georg Reinke <guelfey@gmail.com>
George Gkirtsou <ggkirtsou@gmail.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Open Source Used In SMI 2021.01.0-Jan-2022 6479

Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freiheit.com>
Marga Manterola <marga@google.com>
Marin Bai <marin.basic02@gmail.com>
Marius Nuennerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@google.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoebling <martin.hoebling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@gmail.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mt Gulyas <mgulyas86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapliski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@google.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Ushakov <ushakov@gmail.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Mayank Kumar <krmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Durakananda <pongad@gmail.com>
Patrick Pelletier <pp.pelletier@gmail.com>
Patrick Riley <spr@google.com>
Patrick Smith <pat42smith@gmail.com>
Paul A Querna <paul.querna@gmail.com>
Paul Borman <borman@google.com>
Paul Boyd <boyd.paul2@gmail.com>
Paul Chang <paulchang@google.com>
Paul Hammond <paul@paulhammond.org>
Paul Hankin <paulhankin@google.com>
Paul Jolly <paul@myitcv.org.uk>
Paul Lalonde <paul.a.lalonde@gmail.com>
Paul Marks <pmarks@google.com>
Paul Meyer <paul.meyer@microsoft.com>
Paul Nasrat <pnasrat@gmail.com>
Pavel PISCUC <paul.piscuc@gmail.com>
Paul Querna <pquerna@apache.org>
Paul Rosania <paul.rosania@gmail.com>
Pavel Ruest <pruest@gmail.com>
Pavel Sbarra <Sbarra.Paul@gmail.com>
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
Paul van Brouwershaven <paul@vanbrouwershaven.com>
Paul Wankadia <junyer@google.com>
Paulo Casaretto <pcasaretto@gmail.com>
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ynkins@gmail.com>
Pawel Knap <pawelknap88@gmail.com>
Pawel Szczur <filemon@google.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Petar Maymounkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@google.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@google.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pomorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Pter Surnyi <speter.go1@gmail.com>
Pter Szab <pts@google.com>
Pter Szilgyi <peterke@gmail.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Petrice Voicu <pvoicu@paypal.com>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellopiers.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Pontus Leitzler <leitzler@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Varanasi <prashant@prashantv.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Qiuuxuan Zhu <ilsh1022@gmail.com>
Quan Tran <qued.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quinn Slack <sqs@sourcegraph.com>
Quoc-Viet Nguyen <afelion@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykomplally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Raph Levien <raph@google.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvra@gmail.com>
RaviTeja Pothana <ravi.tezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Raymond Kazlauskas <raima220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <junorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Wilkin <stevenwilkin@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aiuzu.1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.1@gmail.com>
Ted Kornish <golang@tedkornish.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanatat Tamtan <acoshift@gmail.com>
Thiago Avelino <tavelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@google.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@gmail.com>
Thomas Kappler <kappler@gmail.com>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
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=head1 NAME

HTTP::Date - date conversion routines

=head1 SYNOPSIS

use HTTP::Date;

$string = time2str($time);  # Format as GMT ASCII time
$t ime = str2time($string);  # convert ASCII date to machine time

=head1 DESCRIPTION

This module provides functions that deal the date formats used by the HTTP protocol (and then some more). Only the first two functions, time2str() and str2time(), are exported by default.

=over 4

=item time2str( $time )
The time2str() function converts a machine time (seconds since epoch) to a string. If the function is called without an argument or with an undefined argument, it will use the current time.

The string returned is in the format preferred for the HTTP protocol. This is a fixed length subset of the format defined by RFC 1123, represented in Universal Time (GMT). An example of a time stamp in this format is:

Sun, 06 Nov 1994 08:49:37 GMT

=item str2time( $str [, $zone] )

The str2time() function converts a string to machine time. It returns C<undef> if the format of $str is unrecognized, otherwise whatever the C<Time::Local> functions can make out of the parsed time. Dates before the system's epoch may not work on all operating systems. The time formats recognized are the same as for parse_date().

The function also takes an optional second argument that specifies the default time zone to use when converting the date. This parameter is ignored if the zone is found in the date string itself. If this parameter is missing, and the date string format does not contain any zone specification, then the local time zone is assumed.

If the zone is not "C<GMT>" or numerical (like "C<-0800>" or "C<+0100>"), then the C<Time::Zone> module must be installed in order to get the date recognized.

=item parse_date( $str )

This function will try to parse a date string, and then return it as a list of numerical values followed by a (possible undefined) time zone specifier; ($year, $month, $day, $hour, $min, $sec, $tz). The $year will be the full 4-digit year, and $month numbers start with 1 (for January).

In scalar context the numbers are interpolated in a string of the "YYYY-MM-DD hh:mm:ss TZ"-format and returned.

If the date is unrecognized, then the empty list is returned (C<undef> in scalar context).

The function is able to parse the following formats:

"Thu Feb  3 17:03:55 GMT 1994" -- ctime(3) format
"Thu Feb  3 00:00:00 1994", -- ANSI C asctime() format
"Tuesday, 08-Feb-94 14:15:29 GMT" -- old rfc850 HTTP format
"Tuesday, 08-Feb-1994 14:15:29 GMT" -- broken rfc850 HTTP format

"03/Feb/1994:17:03:55 -0700" -- common logfile format
"09 Feb 1994 22:23:32 GMT" -- HTTP format (no weekday)
"08-Feb-94 14:15:29 GMT" -- rfc850 format (no weekday)
"08-Feb-1994 14:15:29 GMT" -- broken rfc850 format (no weekday)

"1994-02-03 14:15:29 -0100" -- ISO 8601 format
"1994-02-03 14:15:29" -- zone is optional
"1994-02-03" -- only date
"1994-02-03T14:15:29" -- Use T as separator
"19940203T141529Z" -- ISO 8601 compact format
"19940203" -- only date

"08-Feb-94" -- old rfc850 HTTP format (no weekday, no time)
"08-Feb-1994" -- broken rfc850 HTTP format (no weekday, no time)
"09 Feb 1994" -- proposed new HTTP format (no weekday, no time)
"03/Feb/1994" -- common logfile format (no time, no offset)

"Feb 3 1994" -- Unix 'ls -l' format
"Feb 3 17:03" -- Unix 'ls -l' format

"11-15-96 03:52PM" -- Windows 'dir' format

The parser ignores leading and trailing whitespace. It also allow the
seconds to be missing and the month to be numerical in most formats.

If the year is missing, then we assume that the date is the first
matching date I<before> current month. If the year is given with only
2 digits, then parse_date() will select the century that makes the
year closest to the current date.

=item time2isot( [time] )

Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ss"-formatted
string representing time in the local time zone.

=item time2isoz( [time] )

Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ssZ"-formatted
string representing Universal Time.

=back

=head1 SEE ALSO

L< perlfunc/time >, L< Time::Zone >
NAME

HTTP::Date - date conversion routines

SYNOPSIS

use HTTP::Date;

$string = time2str($time);    # Format as GMT ASCII time
$time = str2time($string);    # convert ASCII date to machine time

DESCRIPTION

This module provides functions that deal the date formats used by the
HTTP protocol (and then some more). Only the first two functions,
time2str() and str2time(), are exported by default.

time2str( [$time] )

The time2str() function converts a machine time (seconds since
epoch) to a string. If the function is called without an argument or
with an undefined argument, it will use the current time.

The string returned is in the format preferred for the HTTP
protocol. This is a fixed length subset of the format defined by RFC
1123, represented in Universal Time (GMT). An example of a time
stamp in this format is:

    Sun, 06 Nov 1994 08:49:37 GMT

str2time( $str [, $zone] )

The str2time() function converts a string to machine time. It
returns `undef' if the format of $str is unrecognized, otherwise
whatever the `Time::Local' functions can make out of the parsed
time. Dates before the system's epoch may not work on all operating
systems. The time formats recognized are the same as for
parse_date().
The function also takes an optional second argument that specifies the default time zone to use when converting the date. This parameter is ignored if the zone is found in the date string itself. If this parameter is missing, and the date string format does not contain any zone specification, then the local time zone is assumed.

If the zone is not ""GMT"" or numerical (like "-0800" or "+0100"), then the `Time::Zone` module must be installed in order to get the date recognized.

parse_date( $str )
This function will try to parse a date string, and then return it as a list of numerical values followed by a (possible undefined) time zone specifier; ($year, $month, $day, $hour, $min, $sec, $tz). The $year returned will not have the number 1900 subtracted from it and the $month numbers start with 1.

In scalar context the numbers are interpolated in a string of the "YYYY-MM-DD hh:mm:ss TZ"-format and returned.

If the date is unrecognized, then the empty list is returned.

The function is able to parse the following formats:

"Thu Feb 3 17:03:55 GMT 1994" -- ctime(3) format
"Thu Feb 3 00:00:00 1994", -- ANSI C asctime() format
"Tuesday, 08-Feb-94 14:15:29 GMT" -- old rfc850 HTTP format
"Tuesday, 08-Feb-1994 14:15:29 GMT" -- broken rfc850 HTTP format

"03/Feb/1994:17:03:55 -0700" -- common logfile format
"09 Feb 1994 22:23:32 GMT" -- HTTP format (no weekday)
"08-Feb-94 14:15:29 GMT" -- rfc850 format (no weekday)
"08-Feb-1994 14:15:29 GMT" -- broken rfc850 format (no weekday)

"1994-02-03 14:15:29 -0100" -- ISO 8601 format
"1994-02-03 14:15:29" -- zone is optional
"1994-02-03" -- only date
"1994-02-03T14:15:29" -- Use T as separator
"19940203T141529Z" -- ISO 8601 compact format
"19940203" -- only date

"08-Feb-94" -- old rfc850 HTTP format (no weekday, no time)
"08-Feb-1994" -- broken rfc850 HTTP format (no weekday, no time)
"09 Feb 1994" -- proposed new HTTP format (no weekday, no time)
"03/Feb/1994" -- common logfile format (no time, no offset)
"Feb 3 1994" -- Unix 'ls -l' format
"Feb 3 17:03" -- Unix 'ls -l' format

"11-15-96 03:52PM" -- Windows 'dir' format

The parser ignores leading and trailing whitespace. It also allow
the seconds to be missing and the month to be numerical in most
formats.

If the year is missing, then we assume that the date is the first
matching date *before* current month. If the year is given with only
2 digits, then parse_date() will select the century that makes the
year closest to the current date.

time2iso( [$time] )
   Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ss"-formatted
   string representing time in the local time zone.

time2isoz( [$time] )
   Same as time2str(), but returns a "YYYY-MM-DD hh:mm:ssZ"-formatted
   string representing Universal Time.

SEE ALSO
    perlfunc, Time::Zone

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Found in path(s):
* /opt/cola/permits/1136704228_1613864729.44/0/libhttp-date-perl-6-02-orig-tar-gz/HTTP-Date-6.02/README

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1.320 dropwizard-lifecycle 1.3.29

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1.323 python-requests 2.18.4 2ubuntu0.1

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1.329 evanphx-json-patch 4.5.0+incompatible

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1.330 python-ldap 3.0.0-1ubuntu0.1
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name": "the name", "url": "the url"}`
    const licenseYAML = `name: the name
url: the url`

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a

type License struct {
    Name string `json:"name,omitempty"`
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

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1.333 go-testing-interface 1.0.0
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1.337 workerpool 6.1.5
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 * https://github.com/josdejong/workerpool
 *
 * Offload tasks to a pool of workers on node.js and in the browser.
 *
 * @version 6.1.5
 * @date 2021-06-17
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

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* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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Gocheck - A rich testing framework for Go

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1.349 x-sync 0.0.0-20201020160332-67f06af15bc9

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1.350 logfmt 0.3.0

1.351 libcap-ng 0.7.7 3.1

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

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Files: *
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Files: debian/*
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1.362 llvm 6.0-1ubuntu2

1.362.1 Available under license:

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
    ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
    BB:
    %L34 = load i8, i8* %0
    %Cmp56 = icmp sgt i8 undef, %L34
    br label %CF246

    CF246:
    ; preds = %CF246, %BB
    %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248

    CF248:
    ; preds = %CF248, %CF246
    store i8 %Sl163, i8* %0
    br label %CF248
}

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: add256:
    ; CHECK:     # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vpadd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:  vpadd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:  vpadd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT:  vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT:  vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT:  vmovdqu %ymm1, (%rax)
; CHECK-NEXT:  vmovdqu %ymm0, (%rax)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
    # %bb.0:
    ; CHECK-LABEL: avg_v64i8_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm0
    ; CHECK-NEXT:    vpavgb (%rdi), %zmm0, %zmm0
    ; CHECK-NEXT:    vmovdqu64 %zmm0, (%rax)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, %4
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, %5, %4
    %8 = trunc <64 x i32> %7 to <64 x i8>
    store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}
define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: pmaddwd_32_512:
  ; CHECK:     # %bb.0:
  ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: psubus_64i8_max_256:
  ; CHECK:     # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:   vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT:   vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:   movl %edx, %eax
; CHECK-NEXT:   vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:   xorl %ecx, %ecx
; CHECK-NEXT:   vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:   vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT:   .p2align 4, 0x90
; CHECK-NEXT:  .LBB8_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT:    vpmaddwd %ymm3, %ymm3, %ymm5
; CHECK-NEXT:    vpaddd %ymm1, %ymm1, %ymm1
; CHECK-NEXT:    vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:    vpmovsxbw 16(%rsi,%rcx), %ymm3
}
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {  
    ; CHECK-LABEL: _Z9test_charPcS_i_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB9_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
    ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB9_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %xmm1
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm1
    ; CHECK-NEXT:    vextracti128 $1, %xmm0, %xmm1
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB9_1
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT:    ret i32 %13
}
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
define i32 @sad_16i8_256() "min-legal-vector-width"="256" {;
    CHECK-LABEL: sad_16i8_256:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:   vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:   movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT:   vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:   .p2align 4, 0x90
    ; CHECK-NEXT:   .LBB10_1: # %vector.body
    ; CHECK-NEXT:   # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:   vmovdqu a+1024(%rax), %xmm2
    ; CHECK-NEXT:   vpsadbw b+1024(%rax), %xmm2, %xmm2
    ; CHECK-NEXT:   vpaddd %ymm1, %ymm2, %ymm1
    ; CHECK-NEXT:   vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:   vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:   vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:   vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT:   vpaddd %ymm0, %ymm0, %ymm0
    ; CHECK-NEXT:   vmovd %xmm0, %eax
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    entry:
    br label %vector.body
vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
    %2 = zext <16 x i8> %wide.load to <16 x i32>
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
    %4 = bitcast i8* %3 to <16 x i8>*
    %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, %1
%8 = sub nsw <16 x i32> %2, %5
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> %12, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> %13, i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> %14, i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> %15, i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB11_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB11_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %zmm1
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
entry:
  br label %vector.body

vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %1 = bitcast i8* %0 to <16 x i8>* %16
  %wide.load = load <16 x i8>, <16 x i8>* %16, align 4
  %2 = zext <16 x i8> %wide.load to <16 x i32>
  %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
  %4 = bitcast i8* %3 to <16 x i8>* %17
  %wide.load1 = load <16 x i8>, <16 x i8>* %17, align 4
  %5 = zext <16 x i8> %wide.load1 to <16 x i32>
  %6 = sub nsw <16 x i32> %2, %5
  %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
  %8 = sub nsw <16 x i32> zeroinitializer, %6
  %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
  %10 = add nsw <16 x i32> %9, %vec.phi
  %index.next = add i64 %index, 4
  %11 = icmp eq i64 %index.next, 1024
  br i1 %11, label %middle.block, label %vector.body

middle.block:
  %.lcssa = phi <16 x i32> [ %10, %vector.body ]
  %.rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> %i32.8, %i32.9, %i32.10, %i32.11, %i32.12, %i32.13, %i32.14, %i32.15, %i32.16, %i32.17, %i32.18, %i32.19, %i32.20, %i32.21, %i32.22, %i32.23, %i32.24, %i32.25, %i32.26, %i32.27, %i32.28, %i32.29, %i32.30, %i32.31
  %bin.rdx = add <16 x i32> %.lcssa, %.rdx.shuf
  %.rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> %i32.4, %i32.5, %i32.6, %i32.7, %i32.8, %i32.9, %i32.10, %i32.11, %i32.12, %i32.13, %i32.14, %i32.15, %i32.16, %i32.17, %i32.18, %i32.19, %i32.20, %i32.21, %i32.22, %i32.23, %i32.24, %i32.25, %i32.26, %i32.27, %i32.28, %i32.29, %i32.30, %i32.31
  %bin.rdx2 = add <16 x i32> %bin.rdx, %.rdx.shuf2
  %.rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> %i32.2, %i32.3, %i32.4, %i32.5, %i32.6, %i32.7, %i32.8, %i32.9, %i32.10, %i32.11, %i32.12, %i32.13, %i32.14, %i32.15, %i32.16, %i32.17, %i32.18, %i32.19, %i32.20, %i32.21, %i32.22, %i32.23, %i32.24, %i32.25, %i32.26, %i32.27, %i32.28, %i32.29, %i32.30, %i32.31
  %bin.rdx3 = add <16 x i32> %bin.rdx2, %.rdx.shuf3
  %.rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> %i32.1, %i32.2, %i32.3, %i32.4, %i32.5, %i32.6, %i32.7, %i32.8, %i32.9, %i32.10, %i32.11, %i32.12, %i32.13, %i32.14, %i32.15, %i32.16, %i32.17, %i32.18, %i32.19, %i32.20, %i32.21, %i32.22, %i32.23, %i32.24, %i32.25, %i32.26, %i32.27, %i32.28, %i32.29, %i32.30, %i32.31
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f32_256:
    ; CHECK:       # %bb.0:
        ; CHECK-NEXT: vpmovw2m %ymm0, %k0
        ; CHECK-NEXT: kshiftrw $8, %k0, %k1
        ; CHECK-NEXT: vpmovm2d %k1, %ymm0
        ; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
        ; CHECK-NEXT: vpmovm2d %k0, %ymm1
        ; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
        ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
        ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
        ; CHECK-NEXT: vzeroupper
        ; CHECK-NEXT: retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f32_512:
    ; CHECK:       # %bb.0:
        ; CHECK-NEXT: vpmovw2m %ymm0, %k0
        ; CHECK-NEXT: vpmovm2d %k0, %zmm0
        ; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
        ; CHECK-NEXT: vmovaps %zmm0, (%rdi)
        ; CHECK-NEXT: vzeroupper
        ; CHECK-NEXT: retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f64_256:
    ; CHECK:       # %bb.0:
        ; CHECK-NEXT: vpmovw2m %ymm0, %k0
        ; CHECK-NEXT: kshiftrw $8, %k0, %k1
        ; CHECK-NEXT: vpmovm2d %k1, %ymm0
        ; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
        ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0

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define void @sbto16f64_512(@16 x i16) %a, %16 x double}* %res) "min-legal-vector-width"="512" { ; CHECK-LABEL: sbto16f64_512: ; CHECK: # %bb.0: ; CHECK-NEXT: vpmovw2m %ymm0, %k0 ; CHECK-NEXT: vpmovm2d %k0, %ymm0 ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0 ; CHECK-NEXT: vextracti64x4 %zmm0, %ymm0 ; CHECK-NEXT: vcvtdq2ps %ymm0, %zmm0 ; CHECK-NEXT: vpmovm2d %zmm0, %ymm0 ; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0 ; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0 ; CHECK-NEXT: vpmovm2d %zmm1, %ymm1 ; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1 ; CHECK-NEXT: vcvtdq2ps %ymm1, %zmm1 ; CHECK-NEXT: vmovaps %zmm1, (%rdi) ; CHECK-NEXT: vmovaps %ymm1, 64(%rdi) ; CHECK-NEXT: vzeroupper ; CHECK-NEXT: retq ; %mask = icmp slt <16 x i16> %a, zeroinitializer ; %1 = sitofp <16 x i1> %mask to <16 x double> ; store <16 x double> %1, <16 x double>* %res ; ret void ; }

define void @ubto16f32_256(@16 x i16) %a, %16 x float}* %res) "min-legal-vector-width"="256" { ; CHECK-LABEL: ubto16f32_256: ; CHECK: # %bb.0: ; CHECK-NEXT: vpmovw2m %ymm0, %k0 ; CHECK-NEXT: vpmovm2d %k0, %zmm0 ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0 ; CHECK-NEXT: vextracti64x4 %zmm0, %ymm0 ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0 ; CHECK-NEXT: vmovaps %zmm0, %64(%rdi) ; CHECK-NEXT: vpmovm2d %zmm0, %ymm0 ; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0 ; CHECK-NEXT: vpmovm2d %k1, %ymmm0 ; CHECK-NEXT: vpsrld $31, %ymmm0, %ymmm0 ; CHECK-NEXT: vcvtdq2ps %ymmm0, %ymmm0 ; CHECK-NEXT: vpmovm2d %k0, %ymmm1 ; CHECK-NEXT: vpsrld $31, %ymmm1, %ymmm1 ; CHECK-NEXT: vcvtdq2ps %ymmm1, %ymmm1 ; CHECK-NEXT: vmovaps %ymmm1, (%rdi) ; CHECK-NEXT: vmovaps %ymmm0, 32(%rdi) ; CHECK-NEXT: vzeroupper ; CHECK-NEXT: retq ; %mask = icmp slt <16 x i16> %a, zeroinitializer ; %1 = sitofp <16 x i1> %mask to <16 x double> ; store <16 x double> %1, <16 x double>* %res ; ret void ; }

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtqd2pd %ymm0, %ymm0
; CHECK-NEXT: vextracti128 S1, %ymm0, %xmm0
; CHECK-NEXT: vcvtqd2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT: vcvtq2pd %ymm2, %ymm2
; CHECK-NEXT: vcvtq2pd %ymm2, %ymm2
; CHECK-NEXT: vcvtq2pd %ymm2, %ymm3
; CHECK-NEXT: vextracti128 S1, %ymm2, %xmm2
; CHECK-NEXT: vextracti128 S1, %ymm2, %xmm2
; CHECK-NEXT: vextracti128 S1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %ymm2, %xmm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
}

; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {  
; CHECK-LABEL: ubto16f64_512:  
; CHECK:  
ret void
}

define void @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
; CHECK-LABEL: test_16f32toub_256:
ret void
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
; CHECK-LABEL: test_16f32toub_512:
ret void
}
define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
; CHECK-LABEL: test_16f32tosb_256:  
; CHECK:      # %bb.0:  
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1  
; CHECK-NEXT: vpmovd2m %ymm1, %k0  
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1  
; CHECK-NEXT: vpmovd2m %ymm1, %k1  
; CHECK-NEXT: kunpckbw %k0, %k1, %k1  
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}  
; CHECK-NEXT: retq  
%a = load <16 x float>, <16 x float>* %ptr  
%mask = fptosi <16 x float> %a to <16 x i1>  
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
ret <16 x i16> %select  
}  

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
; CHECK-LABEL: test_16f32tosb_512:  
; CHECK:      # %bb.0:  
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1  
; CHECK-NEXT: vpmovd2m %zmm1, %k1  
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] {z}  
; CHECK-NEXT: retq  
%a = load <16 x float>, <16 x float>* %ptr  
%mask = fptosi <16 x float> %a to <16 x i1>  
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
ret <16 x i16> %select  
}  

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {  
; CHECK-LABEL: mul256:  
; CHECK:      # %bb.0:  
; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
; CHECK-NEXT: vmovdqa (%rsi), %ymm2  
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3  
; CHECK-NEXT: vpunpckhbw {{.*#+}} %ymm4 =  
  ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13}
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm0[8,9,9,10,10,11,11,12,13,13,14,14,15,15,24,24,25,26,26,27,27,28,28,29,29,30,30,31,31] 
; CHECK-NEXT: vpmullw %ymm4, %ymm5, %ymm4 
; CHECK-NEXT: vpad %ymm5, %ymm4, %ymm4 
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm2 = ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[8],ymm0[8],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23] 
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23] 
; CHECK-NEXT: vpmullw %ymm2, %ymm0, %ymm2 
; CHECK-NEXT: vpand %ymm5, %ymm2, %ymm2 
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm3 = ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[8],ymm0[8],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23] 
; CHECK-NEXT: vpackuswb %ymm4, %ymm0, %ymm0 
; CHECK-NEXT: vpmullw %ymm2, %ymm4, %ymm2 
; CHECK-NEXT: vpand %ymm5, %ymm2, %ymm2 
; CHECK-NEXT: vpackuswb %ymm0, %ymm0, %ymm0 
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx) 
; CHECK-NEXT: vmovdqa %ymm0, (%rdx) 
; CHECK-NEXT: vzeroupper 
; CHECK-NEXT: retq 
%d = load <64 x i8>, <64 x i8>* %a 
%e = load <64 x i8>, <64 x i8>* %b 
%f = mul <64 x i8> %d, %e
store <64 x i8>* %f, <64 x i8>* %c
ret void
}

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: mul512:
  ; CHECK:    # %bb.0:
  ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
  ; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm2 =
  ; CHECK-NEXT: vmovdqa64 (%rdx), %zmm0
  ; CHECK-NEXT: vpmullw %zmm2, %zmm3, %zmm0
  ; CHECK-NEXT: vpaddq %zmm3, %zmm2, %zmm0
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
}

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</tbody>
</table>

; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'zext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
; VEC512-LABEL: 'zext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; %A = zext <8 x i16> undef to <8 x i64>
; %B = zext <8 x i32> undef to <8 x i64>
; %C = zext <16 x i8> undef to <16 x i32>
; %D = zext <16 x i16> undef to <16 x i32>
; %E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() "min-legal-vector-width"="512" {  
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; %A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void

define void @sext256() "min-legal-vector-width"="256" {
 ; VEC256-LABEL: 'sext256'
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; VEC512-LABEL: 'sext256'
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void

} $OpenBSD: COPYRIGHT,v 1.3 2003/06/02 20:18:36 millert Exp $

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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph:
    ; preds = %entry
    br label %while.body

  while.body:
    ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

  sw.bb.i:
    ; preds = %while.body
  unreachable

  sw.bb3.i:
    ; preds = %while.body
  unreachable

  exit:
    ; preds = %while.body
  switch i32 undef, label %exit.2 [
i32 1, label %sw.bb.i17
i32 2, label %sw.bb3.i20
]

sw.bb.i17: ; preds = %.exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:
; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1
; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
ret void
}

define internal void @innerNoAttribute() {
ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
call void @innerLarge()
ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
call void @innerLarge()
ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {

call void @innerSmall()
ret void
}

; We should remove the attribute after inlining since the callee's vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
CHECK-DAG:   %[[C1:const\[0-9\]?]] = bitcast i32 805874720 to i32
CHECK-DAG:   %[[C2:const\[0-9\]?]] = bitcast i32 805874688 to i32
CHECK-DAG:   %[[C3:const\[0-9\]?]] = bitcast i32 805873720 to i32
CHECK-DAG:   %[[C4:const\[0-9\]?]] = bitcast i32 805873688 to i32
CHECK:   %0 = inttoptr i32 %[[C2]] to i8*
CHECK-NEXT:   %1 = load volatile i8, i8* %0
CHECK-NEXT:   %[[M1:const_mat\[0-9\]?]] = add i32 %[[C2]], 4
CHECK-NEXT:   %2 = inttoptr i32 %[[M1]] to i8*
CHECK-NEXT:   %3 = load volatile i8, i8* %2
CHECK-NEXT:   %[[M2:const_mat\[0-9\]?]] = add i32 %[[C2]], 31
CHECK-NEXT:   %4 = inttoptr i32 %[[M2]] to i8*
CHECK-NEXT:   %5 = load volatile i8, i8* %4
CHECK-NEXT:   %6 = inttoptr i32 %[[C1]] to i8*
CHECK-NEXT:   %7 = load volatile i8, i8* %6
CHECK-NEXT:   %[[M3:const_mat\[0-9\]?]] = add i32 %[[C1]], 7
CHECK-NEXT:   %8 = inttoptr i32 %[[M3]] to i8*
CHECK-NEXT:   %9 = load volatile i8, i8* %8
CHECK-NEXT:   %[[M4:const_mat\[0-9\]?]] = add i32 %[[C1]], 80
CHECK-NEXT:   %10 = inttoptr i32 %[[C4]] to i8*
CHECK-NEXT:   %11 = load volatile i8, i8* %10
CHECK-NEXT:   %[[M4:const_mat\[0-9\]?]] = add i32 %[[C4]], 31
CHECK-NEXT:   %12 = inttoptr i32 %[[M4]] to i8*
CHECK-NEXT:   %13 = load volatile i8, i8* %12
CHECK-NEXT:   %[[M5:const_mat\[0-9\]?]] = add i32 %[[C3]], 7
CHECK-NEXT:   %14 = inttoptr i32 %[[M5]] to i8*
CHECK-NEXT:   %15 = load volatile i8, i8* %14
CHECK-NEXT:   store i8 %15, i8* @goo

@goo = global i8* undef

define void @foo_i8() {
entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
}
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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; RUN: llc -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we don't end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

```assembly
define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}
```

```assembly
define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}
```

```assembly
define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}
```

```assembly
define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}
```
define fp128 @TestCopysign(fp128 %a, fp128 %b) {
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000008000000000000000, %mul
ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). 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 is a sponsoring member of the PSF.

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Mersenne Twister

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

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/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 :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-------------------------------

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UUencode and UUdecode functions
-------------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
--------------------------

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1.373 python-jsonpatch 1.19+really1.16-1fakesync1

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1.374 logilab-common 1.4.1

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

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1.375 aws-sdk-go-v2 1.3.2

1.375.1 Available under license:

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
  "context"  
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
  "github.com/aws/aws-sdk-go-v2/service/ licensemanager/types"  
  "github.com/aws/smithy-go/middleware"  
  smithyhttp "github.com/aws/smithy-go/transport/http"  
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {  
  if params == nil {  
    params = &DeleteLicenseInput{}  
  }  

  result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)  
  if err != nil {  
    return nil, err  
  }
type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion *string
}

type DeleteLicenseOutput struct {

    // Date on which the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err =
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
        addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU

}
//
// * Status
//
// * KeyFingerprint
//
// * Issuer
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

} type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
    }
}
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, 
        addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string


// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata
}

type CreateLicenseOutput struct {
// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
        addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {
    // Checkout type.
    // // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    // // This member is required.
    ClientToken *string

    // License entitlements.
    // // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    // // This member is required.
    KeyFingerprint *string

    // Product SKU.
    // // This member is required.
    ProductSKU *string
// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"
// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
    addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
}
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
package licensemanager

import (  
  "context"  
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
  "github.com/aws/smithy-go/middleware"  
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.  
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {  
  if params == nil {  
    params = &ListLicensesInput{}  
  }  

  result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,  
  addOperationListLicensesMiddlewares)  
  if err != nil {  
    return nil, err  
  }  

  out := result.(*ListLicensesOutput)  
  out.ResultMetadata = metadata  
  return out, nil  
}

type ListLicensesInput struct {  

  // Filters to scope the results. The following filters are supported:  
  //
// * Beneficiary
// * ProductSKU
// * KeyFingerprint
// * Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

} type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

} func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {

return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
ServiceID:     ServiceID,
SigningName:   "license-manager",
OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
"github.com/aws/smithy-go/middleware"  
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {  
if params == nil {  
params = &GetLicenseInput{}  
}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
if err != nil {  
return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

// Amazon Resource Name (ARN) of the license.

//  
// This member is required.
LicenseArn *string

// License version.

Version *string
}

type GetLicenseOutput struct {
// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIdRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
        }
result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
}
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
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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
1.376 typing-extensions 4.0.1

1.376.1 Available under 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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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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AES in libhcrypto

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rijndael-alg-fst.c
@version 3.0 (December 2000)

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

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

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kdc/announce.c

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DES core in libhcrypto

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D3DES (V5.09) -

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

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


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Windows support

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lib/hcrypto/test_dh.c

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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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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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Version 3, 29 June 2007

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

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   d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no
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1.394 x-net 0.0.0-20210224082022-3d97a244fca7

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1.395 metrics-health-checks 4.1.16

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1.396 six 1.11.0

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1.397 blang-semver 3.5.1+incompatible

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1.398 fileutils 1.1.0

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1.399 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
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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(
```
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
```

```python
```
True

```python
>>> 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
You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/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 or try browsing pyasn1 mailing list archives.

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Found in path(s):
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/README.md

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_constraint.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/error.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/__main__.py

---

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asn.1 library for python

.. toctree::
:maxdepth: 1
Abstract Syntax Notation One (`ASN.1` <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>__) 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 it was split off the e-mail application and became 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/protobuf>`__ 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 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

-------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install

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

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Getting help
-------------


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
Prof John Larmouth

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:

  
  by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

1.400 registry-auth-token 4.2.1

1.400.1 Available under license:

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#!/usr/bin/env python
#
# check if a file has the proper license in it
#
# USAGE: check-license.py [-C] file1 file2 ... fileN
#
# A 'file' may in fact be a directory, in which case it is recursively searched.
#
# If the license cannot be found, then the filename is printed to stdout.
# Typical usage:
# $ check-license.py . > bad-files
#
# -C switch is used to change licenses.
# Typical usage:
# $ check-license.py -C file1 file2 ... fileN
#

import sys, os, re

# Note: Right now, OLD_LICENSE and NEW_LICENSE are the same, because
# r878444 updated all the license blocks. In the future, if we update
# the license block again, change just NEW_LICENSE and use this script.

OLD_LICENSE = "\n  \* ====================================================================
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  \*    distributed with this work for additional information
  \*    regarding copyright ownership. The SVN Corp. licenses this file
  \*    to you under the Apache License, Version 2.0 (the
  \*    "License"); you may not use this file except in compliance
  \*
"
c_comment_suffices = ('.c', '.java', '.h', '.cpp', '.hw', '.pas')

# Yes, this is an empty tuple. No types that fit in this category uniformly
# have a copyright block.
# Possible types to add here:
# ('.bat', '.py', '.pl', '.in')
sh_comment_suffices = ()

def check_file(fname, old_re, new_lic):
s = open(fname).read()
if (not old_re.search(s)
    and not re_EXCLUDE.search(s)):
    print(fname)

def change_license(fname, old_re, new_lic):
s = open(fname).read()
m = old_re.search(s)
if not m:
    print('ERROR: missing old license: %s' % fname)
else:
s = s[:m.start()] + new_lic + s[m.end():]
open(fname, 'w').write(s)
print('Changed: %s' % fname)

def visit(baton, dirname, dircontents):
    file_func = baton
    for i in dircontents:
        # Don't recurse into certain directories
        if i in ('.svn', '.libs'):
            dircontents.remove(i)
            continue
        extension = os.path.splitext(i)[1]
        fullname = os.path.join(dirname, i)

        if os.path.isdir(fullname):
            continue

        if extension in c_comment_suffices:
            file_func(fullname, re_OLD, NEW_LICENSE)
        elif extension in sh_comment_suffices:
            file_func(fullname, re_SH_OLD, SH_NEW_LICENSE)

def main():
    file_func = check_file
    if sys.argv[1] == '-C':
        print('Changing license text...')
    del sys.argv[1]

Open Source Used In SMI 2021.01.0-Jan-2022 7282
file_func = change_license

for f in sys.argv[1:]:
    if os.path.isdir(f):
        baton = file_func
        for dirpath, dirs, files in os.walk(f):
            visit(baton, dirpath, dirs + files)
    else:
        baton = file_func
        dir, i = os.path.split(f)
        visit(baton, dir, i)

if __name__ == '__main__':
    main()

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1.408 libseccomp 2.5.1-1ubuntu1~18.04.1

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1.414 apt 1.6.14

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1.415 masterminds-semver 1.5.0

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1.418 npm-install-checks 4.0.0

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-------------------------------------------------------------------------
Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
int display_legal(pam_handle_t *pamh) {
    int retval = PAM_IGNORE, rc;
    char *user = NULL;
    char *dir = NULL;
    char *flag = NULL;
    struct passwd *pwd = NULL;
    struct stat s;
    int f;
    /* Get the user name to determine if we need to print the disclaimer */
    rc = pam_get_item(pamh, PAM_USER, &user);
    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0') {
        PAM_MODUTIL_DEF_PRIVS(privs);

        /* Get the password entry */
        pwd = pam_modutil_getpwnam (pamh, user);
        if (pwd != NULL) {
            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
                pam_syslog(pamh, LOG_ERR,
                           "Unable to change UID to %d temporarily\n",
                           pwd->pw_uid);
                retval = PAM_SESSION_ERR;
                goto finished;
            }

            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
                goto finished;
            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
                goto finished;

            if (stat(flag, &s) != 0)
                display_file(pamh, "/etc/legal");
            mkdir(dir, 0700);
            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
                     S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
            if (f>=0) close(f);
        }
        if (pam_modutil_regain_priv(pamh, &privs)) {
            pam_syslog(pamh, LOG_ERR,
                        "Unable to change UID to %d temporarily\n",
                        pwd->pw_uid);
            retval = PAM_SESSION_ERR;
        } else {
            return PAM_PERMIT;
        }
    } else {
        return retval;
    }
    // More code...
}

}
"Unable to change UID back to %d\n", privs.old_uid);
+    retval = PAM_SESSION_ERR;
+ }
+
+    _pam_drop(flag);
+    _pam_drop(dir);
+ }
+
+ return retval;
+
+}

PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);
+
+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+
+ return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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Go support for leveled logs, analogous to
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Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
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DNS library in Go
http://miek.nl/posts/2014/Aug/16/go-dns-package/
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LevelDB key/value database in Go
https://github.com/syndtr/goleveldb
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gosnappy - a fork of code.google.com/p/snappy-go
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go-zookeeper - Native ZooKeeper client for Go
https://github.com/samuel/go-zookeeper
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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}

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1.434 check-error 1.0.2

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1.435 githubcomspf13pflag v1.0.5

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1.436 zap 1.13.0

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1.437 mbed-tls 1.4.1

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Anthony Canino <anthony.canino1@gmail.com>
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Anthony Fok <foka@debian.org>
Anthony Martin <ality@pbrane.org>
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Audrey Lim <audreylh@gmail.com>
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<tr>
<td>Eric Engestrom</td>
<td><a href="mailto:eric@engestrom.ch">eric@engestrom.ch</a></td>
</tr>
<tr>
<td>Eric Garrido</td>
<td><a href="mailto:ekg@ether.com">ekg@ether.com</a></td>
</tr>
<tr>
<td>Eric Koleda</td>
<td><a href="mailto:ekoleda+devrel@gmail.com">ekoleda+devrel@gmail.com</a></td>
</tr>
<tr>
<td>Eric Lagergren</td>
<td><a href="mailto:ericscottlagergren@gmail.com">ericscottlagergren@gmail.com</a></td>
</tr>
<tr>
<td>Eric Milliken</td>
<td><a href="mailto:emilliwen@gmail.com">emilliwen@gmail.com</a></td>
</tr>
<tr>
<td>Eric Pauley</td>
<td><a href="mailto:eric@pauley.me">eric@pauley.me</a></td>
</tr>
<tr>
<td>Eric Ponce</td>
<td><a href="mailto:tricokun@gmail.com">tricokun@gmail.com</a></td>
</tr>
<tr>
<td>Eric Rescorla</td>
<td><a href="mailto:ekr@rtfm.com">ekr@rtfm.com</a></td>
</tr>
<tr>
<td>Eric Roshan-Eisner</td>
<td><a href="mailto:eric.d.eisner@gmail.com">eric.d.eisner@gmail.com</a></td>
</tr>
<tr>
<td>Eric Rykwaldor</td>
<td><a href="mailto:e.rykwaldor@gmail.com">e.rykwaldor@gmail.com</a></td>
</tr>
<tr>
<td>Erik Aigner</td>
<td><a href="mailto:aigner.erik@gmail.com">aigner.erik@gmail.com</a></td>
</tr>
<tr>
<td>Erik Dubbelboer</td>
<td><a href="mailto:erik@dubbelboer.com">erik@dubbelboer.com</a></td>
</tr>
<tr>
<td>Erik St. Martin</td>
<td><a href="mailto:alakriti@gmail.com">alakriti@gmail.com</a></td>
</tr>
<tr>
<td>Erik Staab</td>
<td><a href="mailto:estaab@gmail.com">estaab@gmail.com</a></td>
</tr>
<tr>
<td>Erik Westrup</td>
<td><a href="mailto:erik.westrup@gmail.com">erik.westrup@gmail.com</a></td>
</tr>
<tr>
<td>Erin Masatsugu</td>
<td><a href="mailto:erin.masatsugu@gmail.com">erin.masatsugu@gmail.com</a></td>
</tr>
<tr>
<td>Ernest Chiang</td>
<td><a href="mailto:ernest.chiang@htc.com">ernest.chiang@htc.com</a></td>
</tr>
<tr>
<td>Erwin Oegema</td>
<td><a href="mailto:blablaechthema@hotmail.com">blablaechthema@hotmail.com</a></td>
</tr>
<tr>
<td>Esko Luontola</td>
<td><a href="mailto:esko.luontola@gmail.com">esko.luontola@gmail.com</a></td>
</tr>
<tr>
<td>Ethan Burns</td>
<td><a href="mailto:eaburns@gmail.com">eaburns@gmail.com</a></td>
</tr>
<tr>
<td>Ethan Miller</td>
<td><a href="mailto:eamiller@us.ibm.com">eamiller@us.ibm.com</a></td>
</tr>
<tr>
<td>Euan Kemp</td>
<td><a href="mailto:euank@euank.com">euank@euank.com</a></td>
</tr>
<tr>
<td>Eugene Kalinin</td>
<td><a href="mailto:e.v.kalinin@gmail.com">e.v.kalinin@gmail.com</a></td>
</tr>
<tr>
<td>Evan Broder</td>
<td><a href="mailto:evan@stripe.com">evan@stripe.com</a></td>
</tr>
<tr>
<td>Evan Brown</td>
<td><a href="mailto:evanbrown@gmail.com">evanbrown@gmail.com</a></td>
</tr>
<tr>
<td>Evan Hicks</td>
<td><a href="mailto:evan.hicks2@gmail.com">evan.hicks2@gmail.com</a></td>
</tr>
<tr>
<td>Evan Jones</td>
<td><a href="mailto:ej@evanjones.ca">ej@evanjones.ca</a></td>
</tr>
<tr>
<td>Evan Klitzke</td>
<td><a href="mailto:evan@eklitzke.org">evan@eklitzke.org</a></td>
</tr>
<tr>
<td>Evan Kroske</td>
<td><a href="mailto:evankroske@ether.com">evankroske@ether.com</a></td>
</tr>
<tr>
<td>Evan Martin</td>
<td><a href="mailto:evan.martin@gmail.com">evan.martin@gmail.com</a></td>
</tr>
<tr>
<td>Evan Phoenix</td>
<td><a href="mailto:evan@phx.io">evan@phx.io</a></td>
</tr>
<tr>
<td>Evan Shaw</td>
<td><a href="mailto:chickencha@gmail.com">chickencha@gmail.com</a></td>
</tr>
<tr>
<td>Evgeniy Polyakov</td>
<td><a href="mailto:zbr@ioremap.net">zbr@ioremap.net</a></td>
</tr>
<tr>
<td>Ewan Chou</td>
<td><a href="mailto:coochoo@gmail.com">coochoo@gmail.com</a></td>
</tr>
</tbody>
</table>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@google.com>
Greg Ward <greg@gerg.ca>
Grgoire Delattre <grgoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Guiherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guillaume J. Charmes <guillaume.charmes.net>
Guobiao Mei <meiguobiao@gmail.com>
Guoliang Wang <siamwgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavofranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenaël Treguier <gwen.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H.brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
HAMANO Tsukasa <hamano@osstech.co.jp>
Han-Wen Nienhuys <hanwen@google.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hallazzang@gmail.com>
Harald Nordgren <haraldnordgren@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Harisharan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <morenoh149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hauke Lifler <hloeffler@users.noreply.github.com>
Hvard Haugen <hvard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyuheng@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@google.com>
Heschi Kreinick <heschi@google.com>
Hidetatsu Yaginuma <ygmnhdtt@gmail.com>
Hilko Bengen <bengen@hilluzination.de>
Hiroaki Nakamura <hnakamur@gmail.com>
Hironao OTSUNO <notemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <ttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Hossein Sheikh Attar <hattar@google.com>
Hsin Tsao <tsao@google.com>
Hsin-Ho Yeh <yhh92u@gmail.com>
Hu Keping <hukeping@huawei.com>
Hugues Bruant <hugues.bruant@gmail.com>
Huy Le <huy.dinh.le.89@gmail.com>
Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>
Ian Cottrell <iancottrell@google.com>
Ian Davis <nospam@iandavis.com>
Ian Gudger <ian@loosescre.ws>
Ian Haken <ihaken@netflix.com>
Ian Kent <iankent85@gmail.com>
Ian Lance Taylor <iant@golang.org>
Ian Leue <ian@appboy.com>
Ian Zapolsky <ianzapolsky@gmail.com>
Ibrahim AshShohail <ibra.sho@gmail.com>
Icarus Sparry <golang@icarus.freeuk.com>
Iccha Sethi <icchasethi@gmail.com>
Idora Shinatose <idora.shinatose@gmail.com>
Igor Bernstein <igorbernstein@gmail.com>
Igor Dolzhikov <bluesriverz@gmail.com>
Igor Vashyst <ivashyst@gmail.com>
Igor Zhilianin <igor.zhilianin@gmail.com>
Ilya Tocar <ilya.tocar@intel.com>
INADA Naoki <songofacandy@gmail.com>
Inanc Gumus <m@inanc.io>
Ingo Gottwald <in.gottwald@gmail.com>
Ingo Krabbe <ikrabbe.ask@gmail.com>
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>
Ioannis Georgoulas <geototti21@hotmail.com>
Irfan Sharif <irfanmahmoudsharif@gmail.com>
Irieda Noboru <irieda@gmail.com>
Isaac Ardis <isaac.ardis@gmail.com>
Isaac Wagner <ibw@isaacwagner.me>
Iskander Sharipov <iskander.sharipov@intel.com> <quasilyte@gmail.com>
Issac Trotts <issactrotts@google.com>
Ivan Babrou <ivan@cloudflare.com>
Ivan Bertona <ivan.bertona@gmail.com>
Ivan Krasin <krasin@golang.org>
Ivan Kutuzov <arbrix@gmail.com>
Ivan Markin <sw@nogoest.net>
Ivan Moscoso <moscoso@gmail.com>
Ivan Sharavuev <shpiwan@gmail.com>
Ivan Ukhov <ivan.ukhov@gmail.com>
Ivy Evans <ivyivyevans.net>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> < burcujdogan@gmail.com>
Jack Britton <jckxbritton@gmail.com>
Jack Lindamood <jlimano@justin.tv>
Jacob Baskin <jbaskin@gmail.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jae Kwon <jae@tendermint.com>
Jake B <doogie1012@gmail.com>
Jakob Borg <jakob@nym.se>
Jakob Weisblat <jakobw@mit.edu>
Jakub ajka <jcajka@redhat.com>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
James Aguilar <jaguilar@gmail.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@gmail.com>
James Clarke <jrtc27@jrtc27.com>
James Cowgill <James.Cowgill@imgtec.com>
James Craig Burley <james-github@burleyarch.com>
James David Chalfant <james.chalfant@gmail.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Hartig <fastest963@gmail.com>
James Lawrence <jljatone@gmail.com>
James Meneghello <rawr70@gmail.com>
James Myers <jmyers9@gmail.com>
James Neve <jamesoneve@gmail.com>
James P. Cooper <jamespcooper@gmail.com>
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
Komu Wairagu <komuw05@gmail.com>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Kris Kwiatkowski <kris@cloudflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@google.com>
Kristopher Watts <traetox@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrylo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lanmm@google.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhl.e.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenzo Masini <rugginoso@develer.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapliski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <ndlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <ndempsky@gmail.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matt.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Ushakov <ushmax@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@gmail.com>
Maxim Ushakov <ushakov@gmail.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mncuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com>
Ravil Bikbulatov <weeellz12@gmail.com>
RaviTeja Pothana <ravi.tezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Raymond Kazlauskas <raima220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Rmy Oudompheng <oudomphe@phare.normalesup.org> <remyoudompheng@gmail.com>
Rens Rikkerink <lkkerens@users.noreply.github.com>
Rhys Hiltner <rhys@justin.tv>
Ricardo Padilha <ricardospadilha@gmail.com>
Richard Barnes <rlb@ipv.sx>
Richard Crowley <rcrowley.org>
Richard Dingwall <rdingwall@gmail.com>
Richard Eric Gavaletz <gavaletz@gmail.com>
Richard Gibson <richard.gibson@gmail.com>
Richard Miller <miller.research@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rlh@golang.org>
Rick Sayre <whorfin@gmail.com>
Rijnard van Tonder <rvantonder@gmail.com>
Riku Voipio <riku.voipio@linaro.org>
Risto Jaakko Saarelma <rsaarelm@gmail.com>
Rob Earhart <earhart@google.com>
Rob Norman <rob.norman@infinitycloud.com>
Rob Phoenix <rob@robpsn.com>
Rob Pike <r@golang.org>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
Robert Dinu <r@varp.se>
Robert Figueiredo <robfig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@gmail.com>
Robert Obryk <robyk@gmail.com>
Robert Sesek <rsesek@gmail.com>
Robert Snedegar <roberts@gmail.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert-Andr Mauchin <zebob.m@gmail.com>
Roberto Clapis <robclap8@gmail.com>
Roberto Selbach <roberto@selbach.ca>
Robin Eklind <r.eklind.87@gmail.com>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Rodolfo Rodriguez <rodolfobgibson@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>
Roger Pau Monn <royger@gmail.com>
Steven Littiebrant <imgroxx@gmail.com>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Taesu Pyo <pyotaesu@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatso@google.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanni@google.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tantam <acoshift@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@google.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@gmail.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@google.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>
Tim Henderson <tim.tadh@gmail.com>
Tim Hockin <thockin@google.com>
Tim Swast <swast@google.com>
Tim Wright <tenortim@gmail.com>
Tim Xu <xiaoxuebei@gmail.com>
Timo Savola <timosavola@gmail.com>
Timo Truysts <alkaloid.btx@gmail.com>
Timothy Studd <tim@timestudd.com>
Tipp Moseley <tipp@google.com>
Tobias Assarsson <tobias.assarsson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>
Tobias Klauser <tklauser@distanz.ch>
Toby Burress <kurin@google.com>
Todd Neal <todd@tmeal.org>
Todd Wang <toddwang@gmail.com>
Tom Bergan <tombergan@gmail.com>
Tom Heng <zhm20070928@gmail.com>
Tom Lanyon <tomlanyon@gmail.com>
Tom Levy <tomlevy93@gmail.com>
Tom Limoncelli <tal@whatexit.org>
Tom Linford <tomlinford@gmail.com>
Tom Payne <twpayne@gmail.com>
Tom Szymanski <tgs@google.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tommy Schaefer <tommy.schaefer@tecom.com>
Tomoya Ishizaki <zaqtomo@gmail.com>
Tonis Tiigi <tonistiigi@gmail.com>
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b) Use a suitable shared library mechanism for linking with the
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1.448 shim 14
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Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Andrew Ekstedt <andrew.ekstedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@google.com>
Andrew Lutomirski <andy@luto.us>
Andrew Pilloud <andrewpilioud@igneoussystems.com>
Andrew Pogrebnoy <absourd.noise@gmail.com>
Andrew Poydence <apoydence@pivotal.io>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Stribblehill <ads@wompom.org>
Andrew Szeto <andrew@jabagwee.com>
Andrew Todd <andrew.todd@wework.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrew Z Allen <me@andrewzallen.com>
Andrey Mirtchovski <mirtchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andri Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Walker <walkeraj@gmail.com>
Andzej Maciusovic <andzej.maciusovic@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bullfone <nbullfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Anit Gandhi <anitgandhi@gmail.com>
Ankit Goyal <ankit3goyal@gmail.com>
Anmol Sethi <anmol@aubble.com>
Anschel Schaffer-Cohen <anschelsc@gmail.com>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony.canino1@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony Fok <foka@debian.org>
Anthony Martin <ality@pbrane.org>
Anthony Sottile <asottile@umich.edu>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Brad Morgan <bradmorgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Brandon Bennett <bbennett@fb.com>
Brandon Gilmore <varz@google.com>
Brandon Ryan <bjryan19@gmail.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O’Dea <bod@golang.org>
Brett Cannon <bcannon@gmail.com>
Brett Merrill <brett.j.merrill94@gmail.com>
Brian Dellisanti <briandellisanti@gmail.com>
Brian Downs <brian.downs@gmail.com>
Brian G. Merrell <bgmerrell@gmail.com>
Brian Gitonga Marete <marete@toshnix.com> <bgmaret@gmail.com> <bgm@google.com>
Brian Kennedy <bt kennedy@gmail.com>
Brian Kessler <brian.m.kessler@gmail.com>
Brian Ketelsen <bketelsen@gmail.com>
Brian Slesinsky <skybrian@google.com>
Brian Smith <ohohvi@gmail.com>
Brian Starke <brian.starke@gmail.com>
Bryan Alexander <Kozical@msn.com>
Bryan C. Mills <bcmills@google.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Bryan Ford <brynosaurus@gmail.com>
Bryan Heden <bheden@gmail.com>
Bulat Gaifullin <gaifullinbf@gmail.com>
Burak Guven <bguven@gmail.com>
Caine Tighe <arctanofyourface@gmail.com>
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>
Caleb Martinez <accounts@calebmartinez.com>
Caleb Spare <cespare@gmail.com>
Carl Chatfield <carlchatfield@gmail.com>
Carl Henrik Lunde <chlunde@ifi.uio.no>
Carl Jackson <carl@stripe.com>
Carl Johnson <me@carlmjohnson.net>
Carl Mastrangelo <notcarl@gmail.com>
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>
Carlisia Campos <carlisia@grokingtech.io>
Carlo Alberto Ferraris <cafxx@strayorange.com>
Carlos Castillo <cookieo9@gmail.com>
Carlos Cirello <suldericofilho@gmail.com>
Carlos Eduardo <me@carlosedp.com>
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>
Carlos Souza <carloshrsouza@gmail.com>
Carolyn Van Slyck <me@carolynvanslyck.com>
Carrie Bynon <cbyon@gmail.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Callendrello <squeed@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <cnicutar@google.com>
Catalin Patulea <catalinp@google.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
Chad Rosier <mrosier.qdt@qualcommdatacenter.com>
ChaiShushan <chaishushan@gmail.com>
Channing Kimble-Brown <channing@golang.org>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <eldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Cherry Zhang <cherryzz@google.com>
Chew Choon Keat <choonkeat@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Lennert <calemnert@gmail.com>
Chris Liles <cavityliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris Marchesi <chrism@vancluevertech.com>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrsmith@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christian Muehlhaeuser <muesli@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Koch <chrisko@google.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@google.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clement Chigot <clement.chigot@atos.net>
Clement Skau <clementskau@gmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Arnott <colin@urandom.co.uk>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Nelson <colnnelson@google.com>
Colin Rice <clr@google.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Conrado Gouvea <conradopl@gmail.com>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Corey Thomasson <cthom.lists@gmail.com>
Cosmos Nicolaou <cnicolau@gmail.com>
Costin Chirvasuta <ctin@gmail.com>
Craig Citro <craigcitro@gmail.com>
Cristian Staretu <unclejacksons@gmail.com>
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>
Cyrill Schumacher <cyrill@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <d42@dmathieu.com>
Damien Neil <dneil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@gmail.com>
Dan Jacques <dnj@google.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@google.com>
Evan Digby <evandigby@gmail.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Evan Klitzke <evan@eklitzke.org>
Evan Kroske <evankroske@google.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Polyakov <zbr@iremap.net>
Ewan Chou <coocood@gmail.com>
Ewan Valentine <evan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedf@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fshahriar@gmail.com>
Federico Bond <federicobond@gmail.com>
Federico Simoncelli <fsmonce@redhat.com>
Fedor Indutny <fedor@indutny.com>
Fedor Korotkiy <dartslon@gmail.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Bnemann <Felix.Buenemann@gmail.com>
Felix Geisendrfer <haimuiba@gmail.com>
Felix Kollmann <fk@konsorten.de>
Filip Gruszczynski <gruszczzy@gmail.com>
Filip Haglund <drathier@users.noreply.github.com>
Filip Stanis <fstanis@google.com>
Filippo Valsorda <filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Forster <octo@gmail.com>
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Folke Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francisco Campoy <campoy@golang.org>
Francesco Renzi <rentziass@gmail.com>
Francisco Claude <fclaudre@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscossouza@gmail.com>
GitHub User @andreus4669 (4699695) <andreus4669@gmail.com>
GitHub User @as (8127015) <as.utf8@gmail.com>
GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <aditzer@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @ech123 (384546) <buat.ch@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @dupoxy (1134357) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @frenkie (6499251) <mail@rhab.de>
GitHub User @hengwu0 (4129744) <41297446+hengwu0@users.noreply.github.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @kazysrh (30496953) <kazysrh0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @micnncim (21333876) <micnncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @OlgaVLpetrova (44112727) <OVPpetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <53217283+utkarsh-extc@users.noreply.github.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <ggp493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@gmail.com>
Greg Thelen <gthelen@gmail.com>
Greg Ward <greg@gerg.ca>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jrojohnson@google.com>
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeffrey H <jeffreyh192@gmail.com>
Jelte Fennema <github-tech@jeltef.nl>
Jens Frederich <jfrederich@gmail.com>
Jeremiah Harmsen <jeremiah@google.com>
Jeremy Banks <_@jeremy.ca>
Jeremy Canady <jcanady@gmail.com>
Jeremy Jackins <jeremyjackins@gmail.com>
Jeremy Jay <jeremy@pbnjay.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jeroen Bobbeldijk <jrobert92@gmail.com>
Jeroen Simonetti <jeroen@simonetti.nl>
Jerrin Shaji George <jerrinsg@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jesse Szwedko <jesse.szwedko@gmail.com>
Jess Espino <jespinog@gmail.com>
Jianing Yu <jnyu@gmail.com>
Jianqiao Li <jianqiaoli@gmail.com>
Jihyun Yu <syjh0502@gmail.com>
Jim Cote <jfjcote87@gmail.com>
Jim Kingdon <jim@bolt.me>
Jim McGrath <jimmc2@gmail.com>
Jim Minter <jminter@redhat.com>
Jimmy Frasche <soapboxcicero@gmail.com>
Jimmy Zelinski <jimmyzelinski@gmail.com>
Jin-wook Jeong <jeweljar@hanmail.net>
Jingcheng Zhang <diogin@gmail.com>
Jingguo Yao <yaojingguo@gmail.com>
Jingnan Si <jingnan.si@gmail.com>
Jinkun Zhang <franksnolf@gmail.com>
Jiong Du <londevil@gmail.com>
Jirka Dank <dnk@mail.muni.cz>
Jiulong Wang <jiulongw@gmail.com>
Joakim Sernbrant <serbaut@gmail.com>
Joe Bowbeer <joe.bowbeer@gmail.com>
Joe Cortopassi <joe@joecortopassi.com>
Joe Farrell <joe2farrell@gmail.com>
Joe Harrison <joehazzers@gmail.com>
Joe Henke <joed.henke@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Joe Poiret <jdpoiret@gmail.com>
Joe Richey <joerichey@gmail.com>
Joe Shaw <joe@joeshaw.org>
Joe Sylve <joe.sylve@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewwbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@gmail.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matt.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenik <maxsem.wiki@gmail.com>
Max Ushakov <ushmax@gmail.com>
Maxim Eryomenko <moeryomenko@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@gmail.com>
Maxim Ushakov <ushakov@gmail.com>
Maxime de Roucy <maxime.dev@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <kmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knyszek <mknyszek@gmail.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Cook <mcode@mdcook.net>
Michael Darakananda <pongad@google.com>
Michael Dorner <mail@michaeldorner.de>
Michael Edwards <mediad@mALLED.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Ellis <micellis@justin.tv>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Fromberger <michael.j.fromberger@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirhrg.leadchim@gmail.com>
Michael Henderson <mdhender@users.noreply.github.com>
Michael Hendricks <michael@ndrix.org>
Michael Hoisie <hoisie@gmail.com>
Sam Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic@google.com>
Sami Pknken <sami.ponkanen@gmail.com>
Samuel Kelemen <SCKelemen@users.noreply.github.com>
Samuel Tan <samueltan@gmail.com>
Samuele Pedroni <pedroni@lucediurna.net>
Sander van Harmelen <sander@vanharmelen.nl>
Sanjay Menakuru <balasanjay@gmail.com>
Santhosh Kumar Tekuri <santhosh.tekuri@gmail.com>
Sarah Adams <shadams@gmail.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@gmail.com>
Sasha Sobol <sasha@scaledinference.com>
Scott Barron <scott.barron@gmail.com>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@gmail.com>
Sean Burford <sburford@gmail.com>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <seane@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Schmidt <yath@gmail.com>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergei Zagurskii <gvozdoder@gmail.com>
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synesis.ru>
Sergey Frolov <sfrlov@gmail.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Stphane Travostino <stphane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen Ma <stephenm@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Mynott <steve.mynott@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streetering <steve@stevestreeting.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadas@gmail.com>
Taesu Pyo <pyotaesu@gmail.com>
Tai Le <letientai299@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Wi Cngru <crvv.mail@gmail.com>
Wei Fu <sfhufe@163.com>
Wei Guangjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Wei Xikai <xykwei@gmail.com>
Weichao Tang <tevic.tt@gmail.com>
Wembly G. Leach, Jr <wembley.gl@gmail.com>
Wenlei (Frank) He <wlhe@google.com>
Wenzel Lowe <lowewenzel@gmail.com>
Wil Selwood <wselwood@gmail.com>
Wilfried Teiken <wteiken@gmail.com>
Will Beason <willbeason@gmail.com>
Will Chan <willchan@gmail.com>
Will Faught <will.faught@gmail.com>
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>
Will Norris <willnorris@gmail.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Chang <mr.williamchang@gmail.com>
William Josephson <wjosephson@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xia Bin <snyh@snyh.org>
Xing Xing <mikespook@gmail.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicealias.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzts@desire.sh>
Yan Zou <yzou@gmail.com>
Yang Tian <linuxty@gmail.com>
Yann Hodique <yhodique@gmail.com>
Yann Kerherve <yann.kerherve@gmail.com>
Yann Salan <yannsalaunl@gmail.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@gmail.com>
Yasha Bubnov <girokompass@gmail.com>
Yasser Abdolmaleki <yasser@yasser.ca>
Yasuhiro Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yasuyuki Oka <yasuyk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <ylh@pdx.edu>
Yesudeep Mangalapilly <yesudeep@google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yohei Takeda <yo.tak0812@gmail.com>
Yongjian Xu <i3dmaster@gmail.com>
Yorman Arias <cixtords@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yuji Yaginuma <yuji.yaginuma@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yugui Sonoda <yugui@google.com>
Yukihiro Nishinaka <h lipsina@gmail.com>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkov <paulzhol@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gershman <zachgersh@gmail.com>
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Zachary Amsden <zach@thundertoken.com>
Zachary Gershman <zgershman@pivotal.io>
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Zhongwei Yao <zhongwei.yao@arm.com>
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Ziad Hatahet <hatahet@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
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<max.faceless.frei@gmail.com>
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1.450 go-runewidth 0.0.6

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# more details.

Found in path(s):
* /opt/cola/permits/1152280212_1618211306.23/0/ruby-minitest-5-10-3-orig-1-tar-gz/minitest-5.10.3/lib/minitest/benchmark.rb
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= minitest/[test,spec,mock,benchmark]

home :: https://github.com/seattlerb/minitest
bugs :: https://github.com/seattlerb/minitest/issues
rdoc :: http://docs.seattlerb.org/minitest
vim :: https://github.com/sunaku/vim-ruby-minitest
emacs:: https://github.com/arthurnn/minitest-emacs

== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were allowed to choose our testing frameworks. Kirk Haines and I were paired up and we cracked open the code for a few test
I MUST say that minitest is *very* readable / understandable compared to the 'other two' options we looked at. Nicely done and thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework. It provides a rich set of assertions to make your tests clean and readable.

minitest/spec is a functionally complete spec engine. It hooks onto minitest/test and seamlessly bridges test assertions over to spec expectations.

minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply.
== FEATURES/PROBLEMS:

* minitest/autorun - the easy and explicit way to run all your tests.
* minitest/test - a very fast, simple, and clean test system.
* minitest/spec - a very fast, simple, and clean spec system.
* minitest/mock - a simple and clean mock/stub system.
* minitest/benchmark - an awesome way to assert your algorithm's performance.
* minitest/pride - show your pride in testing!
* Incredibly small and fast runner, but no bells and whistles.
* Written by squishy human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:

See design_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

```ruby
class Meme
  def i_can_has_cheezburger?
    "OHAI!"
  end

  def will_it_blend?
    "YES!"
  end
end
```

=== Unit tests

Define your tests as methods beginning with +test_+.

```ruby
require "minitest/autorun"

class TestMeme < Minitest::Test
  def setup
    @meme = Meme.new
  end

  def test_that_kitty_can_eat
    assert_equal "OHAI!", @meme.i_can_has_cheezburger?
  end

  def test_that_it_will_not_blend
    refute_match /^no/i, @meme.will_it_blend?
  end
end
```
def test_that_will_be_skipped
  skip "test this later"
end
end

=== Specs

require "minitest/autorun"

describe Meme do
  before do
    @meme = Meme.new
  end

  describe "when asked about cheeseburgers" do
    it "must respond positively" do
      @meme.i_can_has_cheezburger?.must_equal "OHAI!"
    end
  end

  describe "when asked about blending possibilities" do
    it "won't say no" do
      @meme.will_it_blend?.wont_match /^no/i
    end
  end
end

For matchers support check out:

* https://github.com/wojtekmach/minitest-matchers
* https://github.com/rmm5t/minitest-matchers_vaccine

=== Benchmarks

Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV["BENCH"]

class TestMeme < Minitest::Benchmark
  # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
  def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
      @obj.my_algorithm(n)
    end
  end
end
Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match `<tt>/Bench(mark)?$/</tt>.

describe "Meme Benchmark" do
  if ENV["BENCH"] then
    bench_performance_linear "my_algorithm", 0.9999 do |n|
      100.times do
        @obj.my_algorithm(n)
      end
    end
  end
end

outputs something like:

# Running benchmarks:

TestBlah100100010000
bench_my_algorithm 0.006167 0.079279 0.786993
bench_other_algorithm 0.061679 0.792797 7.869932

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

class MemeAsker
  def initialize(meme)
    @meme = meme
  end

  def ask(question)
    method = question.tr(" ", ",") + "?"
    @meme.__send__(method)
  end
end

require "minitest/autorun"
describe MemeAsker, :ask do
  describe "when passed an unpunctuated question" do
    it "should invoke the appropriate predicate method on the meme" do
      @meme = Minitest::Mock.new
      @meme_asker = MemeAsker.new @meme
      @meme.expect :will_it_blend?, :return_value

      @meme_asker.ask "will it blend"

      @meme.verify
  end
end
end

**Multi-threading and Mocks**

Minitest mocks do not support multi-threading if it works, fine, if it doesn't
you can use regular ruby patterns and facilities like local variables. Here's
an example of asserting that code inside a thread is run:

def test_called_inside_thread
  called = false
  pr = Proc.new { called = true }
thread = Thread.new(&pr)
  thread.join
  assert called, "proc not called"
end

=== Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at
http://www.martinfowler.com/bliki/TestDouble.html:

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of
the block.

def test_stale_eh
  obj_under_test = Something.new

  refute obj_under_test.stale?

  Time.stub :now, Time.at(0) do  # stub goes away once the block is done
    assert obj_under_test.stale?
  end
end
A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

```ruby
def obj_under_test.fake_method
  ...
end
```

### Running Your Tests

Ideally, you'll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don't have to:

```bash
% ruby -Ilib:test test/minitest/test_minitest_test.rb
Run options: --seed 37685

# Running:

...................................................................... (etc)
```

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with `--help`:

```bash
% ruby -Ilib:test test/minitest/test_minitest_test.rb --help
```

minitest options:

- `-h, --help` Display this help.
- `-s, --seed SEED` Sets random seed. Also via env. Eg: SEED=n rake
- `-v, --verbose` Verbose. Show progress processing files.
- `-n, --name PATTERN` Filter run on /regexp/ or string.
- `-e, --exclude PATTERN` Exclude /regexp/ or string from run.

Known extensions: pride, autotest

- `-p, --pride` Pride. Show your testing pride!
- `-a, --autotest` Connect to autotest server.

### Writing Extensions

To define a plugin, add a file named `minitest/XXX_plugin.rb` to your project/gem. That file must be discoverable via ruby's `LOAD_PATH` (via rubygems or otherwise). Minitest will find and require that file using `Gem.find_files`. It will then try to call `plugin_XXX_init` during startup. The option processor will also try to call `plugin_XXX_options` passing the OptionParser instance and the current options hash. This
lets you register your own command-line options. Here's a totally
bogus example:

# minitest/bogus_plugin.rb:

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
      options[:myci_addr] = get_myci_addr
      options[:myci_port] = get_myci_port
    end
  end

  def self.plugin_bogus_init(options)
    self.reporter << MyCI.new(options) if options[:myci]
  end
end

=== Adding custom reporters

Minitest uses composite reporter to output test results using multiple
reporter instances. You can add new reporters to the composite during
the init_plugins phase. As we saw in +plugin_bogus_init+ above, you
simply add your reporter instance to the composite via <tt><<<</tt>.

+AbstractReporter+ defines the API for reporters. You may subclass it
and override any method you want to achieve your desired behavior.

start :: Called when the run has started.
record :: Called for each result, passed or otherwise.
report :: Called at the end of the run.
passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

# minitest/bogus_plugin.rb

module Minitest
  class MyCI < AbstractReporter
    attr_accessor :results, :addr, :port

    def initialize options
      self.results = []
      self.addr = options[:myci_addr]
      self.port = options[:myci_port]
    end
  end
end
def record result
    self.results << result
end

def report
    CI.connect(addr, port).send_results self.results
end

equal = 
# code from above...
equal

== FAQ

=== How to test SimpleDelegates?

The following implementation and test:

class Worker < SimpleDelegator
def work
    end
end
describe Worker do
    before do
        @worker = Worker.new(Object.new)
    end
    it "must respond to work" do
        @worker.must_respond_to :work
    end
end

outputs a failure:

1) Failure: Worker#test_0001_must respond to work [bug11.rb:16]:
   Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject.
Expectations are put on Object (one level down) so the Worker
(SimpleDelegate) hits +method_missing+ and delegates down to the
+Object.new+ instance. That object doesn't respond to work so the test
fails.

You can bypass <tt>SimpleDelegate#method_missing</tt> by extending the worker
with <tt>Minitest::Expectations</tt>. You can either do that in your setup at
the instance level, like:
before do
  @worker = Worker.new(Object.new)
  @worker.extend Minitest::Expectations
end

or you can extend the Worker class (within the test file!), like:

class Worker
  include ::Minitest::Expectations
end

=== How to share code across test classes?

Use a module. That's exactly what they're for:

module UsefulStuff
  def useful_method
    # ...
  end
end

describe Blah do
  include UsefulStuff
  def test_whatever
    # useful_method available here
  end
end

Remember, +describe+ simply creates test classes. It's just ruby at
the end of the day and all your normal Good Ruby Rules (tm) apply. If
you want to extend your test using setup/teardown via a module, just
make sure you ALWAYS call super. before/after automatically call super
for you, so make sure you don't do it twice.

=== Why am I seeing <tt>uninitialized constant MiniTest::Test (NameError)</tt>?

Are you running the test with Bundler (e.g. via <tt>bundle exec</tt>)? If so,
in order to require minitest, you must first add the <tt>gem 'minitest'</tt>
to your Gemfile and run +bundle+. Once it's installed, you should be
able to require minitest and run your tests.

== Prominent Projects using Minitest:

  * arel
  * journey
  * mime-types
* nokogiri
* rails (active_support et al)
* rake
* rdoc
* ...and of course, everything from seattle.rb...

== Developing Minitest:

=== Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is often CP850, but can affect any platform.
Minitest can run test suites using any Encoding, but to run Minitest's own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

```ruby
--- expected
+++ actual
@@ -1,2 +1,3 @@
  # encoding: UTF-8
-"Expected /\w+/ to not match "blah blah blah\"."
+"Expected /\w+/ to not match # encoding: UTF-8
+\"blah blah blah\"."
```

To check your current encoding, run:

```
ruby -e 'puts Encoding.default_external'
```

If your output is something other than UTF-8, you can set the RUBYOPTS env variable to a value of `-Eutf-8`. Something like:

```
RUBYOPT='-Eutf-8' ruby -e 'puts Encoding.default_external'
```

Check your OS/shell documentation for the precise syntax (the above will not work on a basic Windows CMD prompt, look for the SET command).
Once you've got it successfully outputing UTF-8, use the same setting when running rake in Minitest.

=== Minitest's own tests require GNU (or similar) diff.

This is also a problem primarily affecting Windows developers. PowerShell has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:

```
4) Failure:
TestMinitestUnitTestCase#test_assert_equal_different_long
```
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:936]:
  Expected: "--- expected
+++ actual
@ -1 +1 @
"hahahahahahahahahahahahahahahahahahahaha"
+"blahblahblahblahblahblahblahblah\n"
  Actual: "Expected: \"hahahahahahahahahahahahahahahahahahahaha\n Actual: \"blahblahblahblahblahblahblahblah\"

5) Failure:
  TestMinitestUnitTestCase#test_assert_equal_different_collection_hash_hex_invisible

[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:845]:
  Expected: "No visible difference in the Hash#inspect output.\nYou should look at the implementation of == on
Hash or its members.\n
{1=><Object:0x00053}>"
  Actual: "Expected: {1=><Object:0x000003ba0470>\n Actual: {1=><Object:0x000003ba0448>"

If you use Cygwin or MSYS2 or similar there are packages that include a
GNU diff for Windows. If you don't, you can download GNU diffutils from
http://gnuwin32.sourceforge.net/packages/diffutils.htm
(make sure to add it to your PATH).

You can make sure it's installed and path is configured properly with:

diff.exe -v

There are multiple lines of output, the first should be something like:

diff (GNU diffutils) 2.8.1

If you are using PowerShell make sure you run diff.exe, not just diff,
which will invoke the PowerShell built in function.

== Known Extensions:

capybara_minitest_spec  :: Bridge between Capybara RSpec matchers and
Minitest::Spec expectations (e.g.
<tt>page.must_have_content("Title")</tt>).
color_pound_spec_reporter  :: Test names print Ruby Object types in color with
your Minitest Spec style tests.
minispec-metadata  :: Metadata for describe/it blocks & CLI tag filter.
  E.g. <tt>it "requires JS driver", js: true do</tt> &
  <tt>ruby test.rb --tag js</tt> runs tests tagged :js.
minispec-rails  :: Minimal support to use Spec style in Rails 5+.
minitest-around  :: Around block for minitest. An alternative to
setup/teardown dance.
minitest-assert_errors  :: Adds Minitest assertions to test for errors raised
or not raised by Minitest itself.
minitest-autotest  :: autotest is a continuous testing facility meant to
be used during development.

minitest-bacon :: minitest-bacon extends minitest with bacon-like functionality.

minitest-bang :: Adds support for RSpec-style let! to immediately invoke let statements before each test.

minitest-bisect :: Helps you isolate and debug random test failures.

minitest-blink1_reporter :: Display test results with a Blink1.

minitest-capistrano :: Assertions and expectations for testing Capistrano recipes.

minitest-capybara :: Capybara matchers support for minitest unit and spec.

minitest-chef-handler :: Run Minitest suites as Chef report handlers

minitest-ci :: CI reporter plugin for Minitest.

minitest-context :: Defines contexts for code reuse in Minitest specs that share common expectations.

minitest-debugger :: Wraps assert so failed assertions drop into the ruby debugger.

minitest-display :: Patches Minitest to allow for an easily configurable output.

minitest-documentation :: Minimal documentation format inspired by rspec's.

minitest-doc_reporter :: Detailed output inspired by rspec's documentation format.

minitest-emoji :: Print out emoji for your test passes, fails, and skips.

minitest-english :: Semantically symmetric aliases for assertions and expectations.

minitest-excludes :: Clean API for excluding certain tests you don't want to run under certain conditions.

minitest-fail-fast :: Reimplements RSpec's "fail fast" feature

minitest-filecontent :: Support unit tests with expectation results in files. Differing results will be stored again in files.

minitest-filesystem :: Adds assertion and expectation to help testing filesystem contents.

minitest-firemock :: Makes your Minitest mocks more resilient.

minitest-focus :: Focus on one test at a time.

minitest-gcstats :: A minitest plugin that adds a report of the top tests by number of objects allocated.

minitest-great_expectations :: Generally useful additions to minitest's assertions and expectations.

minitest-growl :: Test notifier for minitest via growl.

minitest-happy :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!

minitest-have_tag :: Adds Minitest assertions to test for the existence of HTML tags, including contents, within a provided string.

minitest-hooks :: Around and before_all/after_all/around_all hooks

minitest-hyper :: Pretty, single-page HTML reports for your Minitest runs

minitest-implicit-subject :: Implicit declaration of the test subject.

minitest-instrument :: Instrument ActiveSupport::Notifications when test method is executed.
minitest-instrument-db :: Store information about speed of test execution provided by minitest-instrument in database.
minitest-junit :: JUnit-style XML reporter for minitest.
minitest-libnotify :: Test notifier for minitest via libnotify.
minitest-line :: Run test at line number.
minitest-logger :: Define assert_log and enable minitest to test log messages. Supports Logger and Log4r::Logger.
minitest-macruby :: Provides extensions to minitest for macruby UI testing.
minitest-matchers :: Adds support for RSpec-style matchers to minitest.
minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec, but without any expectation infections.
minitest-metadata :: Annotate tests with metadata (key-value).
minitest-mongoid :: Mongoid assertion matchers for Minitest.
minitest-must_not :: Provides must_not as an alias for wont in Minitest.
minitest-optional_retry :: Automatically retry failed test to help with flakiness.
minitest-osx :: Reporter for the Mac OS X notification center.
minitest-parallel_fork :: Fork-based parallelization
minitest-parallel-db :: Run tests in parallel with a single database.
minitest-power_assert :: PowerAssert for Minitest.
minitest-predicates :: Adds support for .predicate? methods.
minitest-profile :: List the 10 slowest tests in your suite.
minitest-rails :: Minitest integration for Rails 3.x.
minitest-rails-capybara :: Capybara integration for Minitest::Rails.
minitest-reporters :: Create customizable Minitest output formats.
minitest-rg :: Colored red/green output for Minitest.
minitest-rspec_mocks :: Use RSpec Mocks with Minitest.
minitest-server :: minitest-server provides a client/server setup with your minitest process, allowing your test run to send its results directly to a handler.
minitest-sequel :: Minitest assertions to speed-up development and testing of Ruby Sequel database setups.
minitest-shared_description :: Support for shared specs and shared spec subclasses
minitest-should_syntax :: RSpec-style \texttt{x.should == y} assertions for Minitest.
minitest-shouldify :: Adding all manner of shoulds to Minitest (bad idea)
minitest-snail :: Print a list of tests that take too long
minitest-spec-context :: Provides rspec-ish context method to Minitest::Spec.
minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g. expect(sequences).to_include :celery_man).
minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.
minitest-spec-rails :: Drop in Minitest::Spec superclass for ActiveSupport::TestCase.
minitest-sprint :: Runs (Get it? It's fast!) your tests and makes it easier to rerun individual failures.
minitest-stately :: Find leaking state between tests
minitest-stub_any_instance :: Stub any instance of a method on the given class for the duration of a block.
minitest-stub-const :: Stub constants for the duration of a block.
minitest-unordered :: Adds a new assertion to minitest for checking the contents of a collection, ignoring element order.
minitest-vcr :: Automatic cassette management with Minitest::Spec and VCR.
minitest_owrapper :: Get tests results as a TestResult object.
minitest_should :: Shoulda style syntax for minitest::unit.
minitest_tu_shim :: Bridges between test/unit and minitest.
mongoid-minitest :: Minitest matchers for Mongoid.
pry-rescue :: A pry plugin w/ minitest support. See pry-rescue/minitest.rb.
rspec2minitest :: Easily translate any RSpec matchers to Minitest assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

* assay-minitest
* detroit-minitest
* em-minitest-spec
* flexmock-minitest
* guard-minitest
* guard-minitest-decisiv
* minitest-activemodel
* minitest-ar-assertions
* minitest-capybara-unit
* minitest-colorer
* minitest-deluxe
* minitest-extra-assertions
* minitest-rails-shoulda
* minitest-spec
* minitest-spec-should
* minitest-sugar
* spork-minitest

== Minitest related goods


== REQUIREMENTS:
* Ruby 1.8.7+. No magic is involved. I hope.
* NOTE: 1.8 and 1.9 will be dropped in minitest 6+.

== INSTALL:

    sudo gem install minitest

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically pull it in. If not, you'll need to do it yourself:

    gem "minitest"  # ensures you're using the gem, and not the built-in MT
    require "minitest/autorun"

    # ... usual testing stuffs ...

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but don't install the gem contents in the gem path. This messes up Gem.find_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

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1.453 fcntl 1.0.0

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1.454 josharian-intern 1.0.0

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1.455 zjsonpatch 0.3.0

1.456 google-golang-org-genproto v0.0.0-20190819201941-24fa4b261c55

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1.457 tcl 8.6.11

1.457.1 Available under license:

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1.458 language-selector 0.188.3

1.458.1 Available under license:

Upstream-Name: language-selector
Upstream-Maintainer: Arne Goetje <arne@ubuntu.com>
Upstream-Source: https://code.launchpad.net/~ubuntu-core-dev/language-selector/ubuntu

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1.459 archy 1.0.0

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1.463 kerberos 1.16-2ubuntu0.2

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1.466 net-http-persistent 3.1.0
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= net-http-persistent

* http://docs.seattlerb.org/net-http-persistent
* https://github.com/drbrain/net-http-persistent

== DESCRIPTION:

Manages persistent connections using Net::HTTP plus a speed fix for Ruby 1.8. It’s thread-safe too!

Using persistent HTTP connections can dramatically increase the speed of HTTP. Creating a new HTTP connection for every request involves an extra TCP round-trip and causes TCP congestion avoidance negotiation to start over.

Net::HTTP supports persistent connections with some API methods but does not handle reconnection gracefully. Net::HTTP::Persistent supports reconnection and retry according to RFC 2616.

== FEATURES/PROBLEMS:

* Supports SSL
* Thread-safe
* Pure ruby
* Timeout-less speed boost for Ruby 1.8 (by Aaron Patterson)

== SYNOPSIS

The following example will make two requests to the same server. The connection is kept alive between requests:

```
require 'net/http/persistent'

uri = URI 'http://example.com/awesome/web/service'

http = Net::HTTP::Persistent.new name: 'my_app_name'

# perform a GET
response = http.request uri

# create a POST
post_uri = uri + 'create'
post = Net::HTTP::Post.new post_uri.path
post.set_form_data 'some' => 'cool data'

# perform the POST, the URI is always required
```

```
response = http.request post_uri, post

# if you are done making http requests, or won't make requests for several
# minutes
http.shutdown

Please see the documentation on Net::HTTP::Persistent for more information,
including SSL connection verification, header handling and tunable options.

== INSTALL:

gem install net-http-persistent

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# the appropriate Contributor License Agreement, found here:
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# Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
#
# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamshannon@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aeciodantasjunior@gmail.com>
Alexander F Rdtseth <alexander.rodseth@appeartv.com>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Louier <aml@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <ik4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Orlov <alexander.orlov@loxlal.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@gmail.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandreiau.net>
Alexandru Mooi <brtznr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalexand@igoole.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Naidonov <alexey.naidonov@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexis Hildebrandt <surryhill@gmail.com>
Alexis Hunt <lexer@igoole.com>
Alexis Imperial-Legrand <ail@igoole.com>
Ali Rizvi-Santiago <arizvisa@gmail.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Allan Simon <allan.simon@supinfo.com>
Allen Li <ayatane@igoole.com>
Alok Menghrajani <alok.menghrajani@gmail.com>
Aman Gupta <aman@tmm1.net>
Amir Mohammad Saied <amir@gluegadget.com>
Amr Mohammed <merodiro@gmail.com>
Amrut Joshi <amrut.joshi@gmail.com>
Anand K. Mistry <anand@mistry.ninja>
Anders Pearson <anders@columbia.edu>
Anderson Queiroz <contanta@andersonq.eti.br>
Andr Carvalho <asantostc@gmail.com>
Andre Nathan <andrenth@gmail.com>
Andrea Nodari <andrea.nodari91@gmail.com>
Andrea Spadaccini <spadaccio@google.com>
Andreas Auernhammer <aead@mail.de>
Andreas Jellinghaus <andreas@ionisiert.de> <anj@google.com>
Andreas Litt <andreas.litt@gmail.com>
Andrei Gherzan <andreii@resin.io>
Andrei Korzhevskii <a.korzhevskiy@gmail.com>
Andrei Matei <andrei@cockroachlabs.com>
Andrei Tudor Clin <mail@acln.ro>
Andrei Vagin <avagin@google.com>
Andrei Vieru <euvieru@gmail.com>
Andres Erbsen <andreser@google.com>
Andres Lowrie <andres.lowrie@gmail.com>
Andrew Austin <andrewaclt@gmail.com>
Andrew Balholm <andybalholm@gmail.com>
Andrew Benton <andrewmbenton@gmail.com>
Andrew Bonventre <andybons@chromium.org>
Andrew Braunstein <awbraunstein@gmail.com>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt <andrew.ekestedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@gmail.com>
Andrew Lutomirski <andy@luto.us>
Andrew Pilloud <andrewpilloc@igneoussystems.com>
Andrew Pogrebnoy <absourd.noise@gmail.com>
Andrew Poydence <apoydence@pivotal.io>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Stribblehill <ads@wompom.org>
Andrew Szeto <andrew@jabagawee.com>
Andrew Todd <andrew.todd@wework.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrew Z Allen <me@andrewzallen.com>
Andrey Mirtchovski <miritchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andrii Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezhe1@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris Marchesi <chris@vancluevertech.com>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrsmith@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christian Muehlhaeuser <muesli@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Koch <chrisko@google.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@google.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clement Chigot <clement.chigot@atos.net>
Clement Skau <clementskau@gmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Arnott <colin@urandom.co.uk>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Nelson <colnnelson@google.com>
Colin Rice <clr@google.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Conrado Gouvea <conradoplq@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Don Byington <don@dbyington.com>
Donald Huang <don.hcd@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@google.com>
Doug Fawley <dfawley@google.com>
Donald Danger Manley <doug.manley@gmail.com>
Drew Flower <drewvanstone@gmail.com>
Drew Hintz <adhintz@google.com>
Duncan Holm <mail@frou.org>
Dustin Carlino <dcarlino@gmail.com>
Dustin Herbison <djherbis@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>
Dylan Waits <dylan@waits.io>
Edan Bedrik <3d4nb3@gmail.com>
Eddie Scholtz <escholtz@google.com>
Eden Li <eden.li@gmail.com>
Eduard Urbach <e.urbach@gmail.com>
Eduardo Ramalho <eduardo.ramalho@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Uggedal <eivind@uggedal.com>
Elbert Flick <eflick@gmail.com>
Eldar Rakhimberdin <ibedon@gmail.com>
Elena Grahovac <elena@grahovac.me>
Eli Bendersky <eliben@google.com>
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Emerson Lin <linc@linyintor.com>
Emil Hessman <emil@hessman.se>
Emil Mursalimov <mursalimomvemeel@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eno Compton <enocom@google.com>
Eoghan Sherry <eogsherry@gmail.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@gmail.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Felipe Oliveira</td>
<td><a href="mailto:felipeweb.programador@gmail.com">felipeweb.programador@gmail.com</a></td>
</tr>
<tr>
<td>Felix Bnemann</td>
<td><a href="mailto:Felix.Buenemann@gmail.com">Felix.Buenemann@gmail.com</a></td>
</tr>
<tr>
<td>Felix Geisendrfer</td>
<td><a href="mailto:haimuiiba@gmail.com">haimuiiba@gmail.com</a></td>
</tr>
<tr>
<td>Felix Kollmann</td>
<td><a href="mailto:fk@konsorten.de">fk@konsorten.de</a></td>
</tr>
<tr>
<td>Filip Gruszczyski</td>
<td><a href="mailto:gruszczzy@gmail.com">gruszczzy@gmail.com</a></td>
</tr>
<tr>
<td>Filip Haglund</td>
<td><a href="mailto:drathier@users.noreply.github.com">drathier@users.noreply.github.com</a></td>
</tr>
<tr>
<td>Filip Stanis</td>
<td><a href="mailto:fstanis@google.com">fstanis@google.com</a></td>
</tr>
<tr>
<td>Filippo Valsorda</td>
<td><a href="mailto:filippo@golang.org">filippo@golang.org</a>, <a href="mailto:filippo@cloudflare.com">filippo@cloudflare.com</a>, <a href="mailto:hi@filippo.io">hi@filippo.io</a></td>
</tr>
<tr>
<td>Firmansyah Adiputra</td>
<td><a href="mailto:frm.adiputra@gmail.com">frm.adiputra@gmail.com</a></td>
</tr>
<tr>
<td>Florian Forster</td>
<td>octo.google.com</td>
</tr>
<tr>
<td>Florian Uekermann</td>
<td><a href="mailto:Florian@uekermann-online.de">Florian@uekermann-online.de</a>, <a href="mailto:f1@uekermann-online.de">f1@uekermann-online.de</a></td>
</tr>
<tr>
<td>Florian Weimer</td>
<td><a href="mailto:fsw@deneb.enyo.de">fsw@deneb.enyo.de</a></td>
</tr>
<tr>
<td>Florin Patan</td>
<td><a href="mailto:florinpatan@gmail.com">florinpatan@gmail.com</a></td>
</tr>
<tr>
<td>Folke Behrens</td>
<td><a href="mailto:folke@google.com">folke@google.com</a></td>
</tr>
<tr>
<td>Ford Hurley</td>
<td><a href="mailto:ford.hurley@gmail.com">ford.hurley@gmail.com</a></td>
</tr>
<tr>
<td>Francesc Campoy</td>
<td><a href="mailto:campoy@golang.org">campoy@golang.org</a></td>
</tr>
<tr>
<td>Francesco Renzi</td>
<td><a href="mailto:rentziass@gmail.com">rentziass@gmail.com</a></td>
</tr>
<tr>
<td>Francisco Claude</td>
<td><a href="mailto:fclaude@recoded.cl">fclaude@recoded.cl</a></td>
</tr>
<tr>
<td>Francisco Rojas</td>
<td><a href="mailto:francisco.rojas.gallegos@gmail.com">francisco.rojas.gallegos@gmail.com</a></td>
</tr>
<tr>
<td>Francisco Souza</td>
<td><a href="mailto:franciscossouza@gmail.com">franciscossouza@gmail.com</a></td>
</tr>
<tr>
<td>Frank Schroeder</td>
<td><a href="mailto:frank.schroeder@gmail.com">frank.schroeder@gmail.com</a></td>
</tr>
<tr>
<td>Frank Somers</td>
<td><a href="mailto:fsomers@arista.com">fsomers@arista.com</a></td>
</tr>
<tr>
<td>Frederic Guillot</td>
<td><a href="mailto:frederic.guillot@gmail.com">frederic.guillot@gmail.com</a></td>
</tr>
<tr>
<td>Frederick Kelly Mayle III</td>
<td><a href="mailto:frederickmayle@gmail.com">frederickmayle@gmail.com</a></td>
</tr>
<tr>
<td>Frederik Ring</td>
<td><a href="mailto:frederik.ring@gmail.com">frederik.ring@gmail.com</a></td>
</tr>
<tr>
<td>Fredrik Enstad</td>
<td><a href="mailto:fredrik.enstad@soundtrackyourbrand.com">fredrik.enstad@soundtrackyourbrand.com</a></td>
</tr>
<tr>
<td>Fredrik Forsmo</td>
<td><a href="mailto:fredrik.forsmo@gmail.com">fredrik.forsmo@gmail.com</a></td>
</tr>
<tr>
<td>Fredrik Wallgren</td>
<td><a href="mailto:fredrik.wallgren@gmail.com">fredrik.wallgren@gmail.com</a></td>
</tr>
<tr>
<td>Frew Schmidt</td>
<td><a href="mailto:github@frew.co">github@frew.co</a></td>
</tr>
<tr>
<td>Frithjof Schulze</td>
<td><a href="mailto:schulze@math.uni-hannover.de">schulze@math.uni-hannover.de</a>, <a href="mailto:sfirthjof@gmail.com">sfirthjof@gmail.com</a></td>
</tr>
<tr>
<td>Frits van Bommel</td>
<td><a href="mailto:fvbommel@gmail.com">fvbommel@gmail.com</a></td>
</tr>
<tr>
<td>Fumitoshi Ukai</td>
<td><a href="mailto:uki@google.com">uki@google.com</a></td>
</tr>
<tr>
<td>G. Hussain Chinoy</td>
<td><a href="mailto:ghchinoy@gmail.com">ghchinoy@gmail.com</a></td>
</tr>
<tr>
<td>Gaal Yahas</td>
<td><a href="mailto:gaal@google.com">gaal@google.com</a></td>
</tr>
<tr>
<td>Gabrel Arthr Pthursson</td>
<td><a href="mailto:gabriel@system.is">gabriel@system.is</a></td>
</tr>
<tr>
<td>Gabriel Aszalos</td>
<td><a href="mailto:gabriel.aszalos@gmail.com">gabriel.aszalos@gmail.com</a></td>
</tr>
<tr>
<td>Gabriel Guzman</td>
<td><a href="mailto:gabe.guzman@gmail.com">gabe.guzman@gmail.com</a></td>
</tr>
<tr>
<td>Gabriel Nelle</td>
<td><a href="mailto:tehspphinx@web.de">tehspphinx@web.de</a></td>
</tr>
<tr>
<td>Gabriel Nicolas Avellaneda</td>
<td><a href="mailto:avellaneda.gabriel@gmail.com">avellaneda.gabriel@gmail.com</a></td>
</tr>
<tr>
<td>Gabriel Russell</td>
<td><a href="mailto:gabriel.russell@gmail.com">gabriel.russell@gmail.com</a></td>
</tr>
<tr>
<td>Gareth Paul Jones</td>
<td><a href="mailto:gpj@foursquare.com">gpj@foursquare.com</a></td>
</tr>
<tr>
<td>Garret Kelly</td>
<td><a href="mailto:gdk@google.com">gdk@google.com</a></td>
</tr>
<tr>
<td>Garrick Evans</td>
<td><a href="mailto:garrison@arista.com">garrison@arista.com</a></td>
</tr>
<tr>
<td>Gary Burd</td>
<td><a href="mailto:gary@beagledreams.com">gary@beagledreams.com</a>, <a href="mailto:gary.burd@gmail.com">gary.burd@gmail.com</a></td>
</tr>
<tr>
<td>Gary Elliott</td>
<td><a href="mailto:garyelliott@gmail.com">garyelliott@gmail.com</a></td>
</tr>
<tr>
<td>Gaurish Sharma</td>
<td><a href="mailto:contact@gaurishsharma.com">contact@gaurishsharma.com</a></td>
</tr>
<tr>
<td>Gautham Thambidorai</td>
<td><a href="mailto:gautham.dorai@gmail.com">gautham.dorai@gmail.com</a></td>
</tr>
<tr>
<td>Gauthier Jolly</td>
<td><a href="mailto:gauthier.jolly@gmail.com">gauthier.jolly@gmail.com</a></td>
</tr>
</tbody>
</table>
Harshavardhana <hrshvardhana@gmail.com>
Hasan Ozgan <hasan@ozgan.net>
Hauke Löffler <hloeffler@users.noreply.github.com>
Hvard Haugen <havard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Cubert <google@mindeco.de>
Henry Chang <mr.changyuheng@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Henry Wong <liushuai.wang@elastic.co>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@gmail.com>
Heschi Kreinick <heschi@google.com>
Hidetatsu Yaginuma <ygnmhdtt@gmail.com>
Hilko Bengen <bengen@hilluzination.de>
Hiroaki Nakamura <hnakamura@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <ttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Horst Rutter <hrutter@gmail.com>
Hossein Sheikh Attar <hattar@google.com>
Hsin Tsao <tsao@google.com>
Hsin-Ho Yeh <yhy92u@gmail.com>
Hu Keping <shukeping@huawei.com>
Hugues Bruant <hugues.bruant@gmail.com>
Huy Le <huy.dinh.le.89@gmail.com>
Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>
Ian Cottrell <iancottrell@google.com>
Ian Davis <nospam@iandavis.com>
Ian Gudger <ian@loosescre.ws>
Ian Haken <ihaken@netflix.com>
Ian Kent <iankent85@gmail.com>
Ian Lance Taylor <iant@golang.org>
Ian Leue <ian@appboy.com>
Ian Zapolsky <ianzapolsky@gmail.com>
Ibrahim AshShohail <ibra.sho@gmail.com>
Icarus Sparry <golang@icarus.freeuk.com>
Iccha Sethi <icchasethi@gmail.com>
Idora Shinatose <idora.shinatose@gmail.com>
Igor Bernstein <igorbernstein@gmail.com>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclone@google.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukedgb.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@google.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishsmail@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <nmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freiheit.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuennerich <mnu@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@google.com>
Peter Hoyes <pahoyes@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@gmail.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Peter Sunyi <speter.go1@gmail.com>
Peter Szab <pts@google.com>
Peter Szilgyi <peterke@gmail.com>
Peter Teichman <pteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petr Jedin <petr.jediny@gmail.com>
Petrika Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <dpdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephani <phst@google.com>
Pierre Durand <pierreddurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellepriors.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Varanasi <prashant@prashantv.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Pure White <wu.purewhite@gmail.com>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <silsh1022@gmail.com>
Quan Tran <qeed.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Rob Phoenix <rob@robphoenix.com>
Rob Pike <r@golang.org>
Robert Ayrapetyan <robert.ayrapetyan@gmail.com>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
Robert Dinu <r@varp.se>
Robert Figueiredo <robfig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@google.com>
Robert Obryk <robyrk@gmail.com>
Robert Sesek <rsesek@gmail.com>
Robert Snedegar <roberts@google.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert van Gent <rvangent@gmail.com>
Robert-Andr Mauchin <zebob.m@gmail.com>
Roberto Clapis <robc1apis@gmail.com>
Roberto Selbach <roberto@selbach.ca>
Robin Eklind <r.eklind.87@gmail.com>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Rodolfo Rodriguez <rodolfo.gibson@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>
Roger Pau Monn <royger@gmail.com>
Roger Peppe <rogerpepe@gmail.com>
Rohan Verma <rohanverma2004@gmail.com>
Roland Illig <roland.illig@gmx.de>
Roland Shoemaker <rolandshoemaker@gmail.com>
Romain Baugue <romain.baugue@elwinar.com>
Roman Budnikov <romanyx90@yandex.ru>
Roman Shchekin <mrqtros@gmail.com>
Ron Hashimoto <mail@h2so5.net>
Ron Minnich <rminnich@gmail.com>
Ross Chater <rdchater@gmail.com>
Ross Light <light@google.com> <rlight2@gmail.com>
Ross Smith II <ross@smithii.com>
Rowan Marshall <rowanajmarshall@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rudi Kramer <rudi.kramer@gmail.com>
Rui Ueyama <ruui@gmail.com>
Ruslan Nigmatullin <elessar@dropbox.com>
Russ Cox <rsc@golang.org>
Russell Haering <russellhaering@gmail.com>
Ryan Bagwell <ryanbagwell@outlook.com>
Ryan Barrett <ryanb@gmail.com>
Ryan Boehning <ryan.boehning@apcera.com>
Ryan Brown <ribdb@gmail.com>
Ryan Canty <jrcanty@gmail.com>
Ryan Dahl <ry@tinyclouds.org>
Simon Rawet <simon@rawet.se>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@gmail.com>
Spring Mc <heresy.mc@gmail.com>
Srđjan Petrović <spetrovic@gmail.com>
Srīdhār Venkatakrishnan <sriddhar@laddoo.net>
StalkR <stalkr@stalkr.net>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baebler <sbeabller@outbrain.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabalin <neverliberty@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stephan Zuercher <suercher@gmail.com>
Stphane Travostino <stphane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhls@users.noreply.github.com>
Stephen Ma <stephennm@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Mynott <smyntott@gmail.com>
Steve Newman <snewman@gmail.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeoting <steve@stevestreeoting.com>
Steven Buss <sbuss@gmail.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjsansen@buscaluz.org>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <tamin01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fn.1c>
Troels Thomsen <troels@thomsen.io>
Trung Nguyen <trung.n.k@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantu2@gmail.com>
Tyler Bui-Pulsulich <tpulsulich@gmail.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Udalov Max <re.udalov@gmail.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangiparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Valentin Vidic <vvidic@valentin-vidic.from.hr>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostoz0b@gmail.com>
Viacheslav Poturav <vearutop@gmail.com>
Victor Chudnovsky <vchudnov@gmail.com>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@gmail.com>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vinu Rajashekhara <vinuthera@gmail.com>
Vish Subramanian <vish@gmail.com>
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1.477 logfmt 0.5.0

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1.478 gopkg-in/gorp 1.7.2

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1.479 jackson-annotations 2.9.10

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas
Assorted

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.495 go-xmlrpc 0.0.3

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Random Hacker.

<signature of Ty Coon>, 1 April 1990 
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That's all there is to it!

1.498 yargs-parser 20.2.4
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1.500 lazy-object-proxy 1.3.1 1

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1.506 grafana-loki v2.2.1

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package spec

import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() (b []byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
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package api

import (  "io/ioutil"  "strings"  "time"
)

type License struct {
// The unique identifier of the license
LicenseID string `json:"license_id"

// The customer ID associated with the license
CustomerID string `json:"customer_id"

// If set, an identifier that should be used to lock the license to a
// particular site, cluster, etc.
InstallationID string `json:"installation_id"

// The time at which the license was issued
IssueTime time.Time `json:"issue_time"

// The time at which the license starts being valid
StartTime time.Time `json:"start_time"

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"

}

type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}
func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }

    return &reply, nil
}
defer resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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package minio

import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"

    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html

// LegalHoldStatus - object legal hold status.
const (  // LegalHoldEnabled indicates legal hold is enabled
LegalHoldEnabled LegalHoldStatus = "ON"

// LegalHoldDisabled indicates legal hold is disabled
LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `%v`, status")
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != "" {
    }

    // PutObjectLegalHold : sets object legal hold for a given object and versionID.
lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
if opts.VersionID != "" {
}

// Execute GET on bucket to list objects.
resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentSHA256Hex: emptySHA256Hex,
})
defer closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
    lh := &objectLegalHold{}
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }
}

return lh.Status, nil

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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@goglers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Dolan <dolan@lightstep.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
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Jan Mercl <0xjnml@gmail.com>
Jonathan Swinney <jswinney@amazon.com>
Kai Backman <kaib@golang.org>
Klaus Post <klauspost@gmail.com>
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Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Vyacheslav Kim <kane@sendgrid.com>
Walter Schulze <awalterschulze@gmail.com>
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tomb - support for clean goroutine termination in Go.

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1.512 kingpin 2.2.6

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 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *<p>
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" } 
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.514 ignore-walk 4.0.1
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1.515 delayed-stream 1.0.0

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1.516 x-text 0.3.5

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1.519 ruamel.yaml 0.17.17

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1.521 python3-wheel 0.30.0-0.2

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1.523 structured-merge-diff 4.1.0

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1.524 hyperlink 17.3.1-2.ph2

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1.525 lockfile 0.12.2

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1.527 githubcomgolangprotobuf v1.4.3

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# Names should be added to this file as:
#     Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@gmail.com>
Aaron Jensen <jensen.aaro@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@youtube.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aeciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <phpprogger@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Tokarev <aleksator@gmail.com>
Alex Vaghin <crhyme@google.com>
Alex Zhirov <azhirov@google.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexd.ch>
Alexander F Rdseth <alexander.rodseth@appeartv.com>
Alexander Greim <alexxx@iltempo.de>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Klauer <Alexander.Klauer@googlemail.com>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Lourier <saml@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Nohe <alex.nohe427@gmail.com>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@google.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandreviau.net>
Alexandru Mooi <brtzsnr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalexand@gmail.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Naidonov <alexy.naidyonov@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexy.palazhchenko@gmail.com>
Alexey Semenyuk <alexsemenyuk88@gmail.com>
Alexey Vilenskiy <bynosvack@gmail.com>
Alexis Hildebrandt <suryhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@apple.com>
Ali Farooq <ali.farooq0@pm.me>
Aurlio A. Heckert <aurium@gmail.com>
Austin Clements <austin@google.com> <aclements@csail.mit.edu>
Avi Flax <avi@timehop.com>
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Awn Umar <awn@cryptolosophy.io>
Axel Wagner <axel.wagner.hh@googlemail.com>
Ayan George <ayan@ayan.net>
Ayanamist Yang <ayanamist@gmail.com>
Ayke van Laethem <aykevanlaethem@gmail.com>
Aymeric Jhanne <aymeric@jehanne.org>
Azzat Sadykov <azzat.ziko.93@gmail.com>
Azat Kaumov <kaumov.a.r@gmail.com>
Baiju Muthukadan <baiju.m.mail@gmail.com>
Balaram Makam <bmakam.qdt@qualcommdatacenter.com>
Balazs Lecz <leczb@google.com>
Baokun Lee <nototon@gmail.com>
Barnaby Keene <accounts@southcla.ws>
Bartosz Grzybowski <melkorm@gmail.com>
Bartosz Oler <brtsz@gmail.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Cartwright-Cox <Ben@Benjojo.co.uk>
Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Haines <bhainesva@gmail.com>
Ben Hoyt <benhoyt@gmail.com>
Ben Kraft <benkraft@khanacademy.org>
Ben Laurie <ben@links.org> <benl@google.com>
Ben Lubar <ben.lubar@gmail.com>
Ben Lynn <benlynn@gmail.com>
Ben Olive <sionide21@gmail.com>
Ben Schwartz <bemasc@gmail.com>
Ben Shi <powerman1st@163.com>
Ben Toews <mastahyeti@gmail.com>
Benjamin Barenblat <bbaren@gmail.com>
Benjamin Black <b@b3k.us>
Benjamin Cable <cable.benjamin@gmail.com>
Benjamin Hsieh <tanookiben@users.noreply.github.com>
Benjamin Peterson <benjamin@python.org>
Benjamin Prosnitz <bprosnitz@gmail.com>
Benjamin Wester <bwester@squareup.com>
Benjamin Wuethrich <benjamin.wuethrich@gmail.com>
Benny Siegert <bsiegert@gmail.com>
Benoit Sigoure <tsunanet@gmail.com>
Berengar Lehr <Berengar.Lehr@gmx.de>
Berkant Ipek <41230766+0xbkt@users.noreply.github.com>
Bharath Thiruveedula <tbharath91@gmail.com>
Bhavin Gandhi <bhavin7392@gmail.com>
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>
Bill O'Farrell <billo@ca.ibm.com>
Bill Prin <waprin@google.com>
Bill Thiede <couchmoney@gmail.com>
Bill Zissimopoulos <billziss@navimatics.com>
Billie Harold Cleek <bhcleek@gmail.com>
Billy Lynch <wlynch@google.com>
Billy Zissimopoulos <billziss@navimatics.com>
Bjørn Erik Pedersen <bjorn.eric.pedersen@gmail.com>
Bjorn Tillenius <bjorn@tillenius.me>
Bjorn Tipling <bjorn.tipling@gmail.com>
Blain Smith <rebelgeek@blainsmith.com>
Blake Gentry <blakesgentry@gmail.com>
Blake Mesdag <blakemesdag@gmail.com>
Blake Mizerany <blake.mizerany@gmail.com>
Blixt <me@blixt.nyc>
Bob Briski <briski@gmail.com>
Bob McNaughton <bobmcn@gmail.com>
Bob Potter <bobby.potter@gmail.com>
Bobby DeSimone <bobbydesimone@gmail.com>
Bobby Powers <bobbypowers@gmail.com>
Boqin Qin <bobbqqin@gmail.com>
Boris Nagaev <nagaev@google.com>
Borja Clemente <borja.clemente@gmail.com>
Boshi Lian <bolian@microsoft.com>
Brad Burch <brad.burch@gmail.com>
Brad Erickson <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <rbjones@google.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Bradford Lamson-Scribner <brad.lamson@gmail.com>
Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Branden J. Brown <zephyrtronium@gmail.com>
Brandon Bennett <bmbennett@fb.com>
Brandon Gilmore <varz@google.com>
Brandon Philips <brandond@ifup.org>
Brandon Ryan <brjryan19@gmail.com>
Brave Cow <rsr715@gmail.com>
Brayden Cloud <bcloud@navimatics.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O'Dea <bod@golang.org>
Brett Cannon <bcannon@gmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gergely Brautigam <karlso777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
Gert Cuykens <gert.cuykens@gmail.com>
Getulio Sanchez <valentin2507@gmail.com>
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>
Gianguido Sora’ <g.s.sora4@gmail.com>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @aca (50316549) <acadx0@gmail.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
GitHub User @andig (184815) <cupidle@gmx.de>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.utf8@gmail.com>
GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <aditza8@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cch123 (384546) <buua.cch@gmail.com>
GitHub User @chainhelen (7046329) <chainhelen@gmail.com>
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GitHub User @cncl (23520240) <flycalvin@qq.com>
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GitHub User @GrigoriyMikhalkin (3637857) <grigoriymikhalkin@gmail.com>
GitHub User @hengwu0 (41297446) <hengwu0@users.noreply.github.com>
GitHub User @hitzhangjie (3725760) <hit.zhangjie@gmail.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jinniealuo (39730824) <jinniealuo@icloud.com>
GitHub User @jopbrown (6345470) <mssshane2008@gmail.com>
GitHub User @kazyshr (30496953) <kazyshr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <linguohua@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @markruler (38225900) <csu0414@gmail.com>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
Guillaume J. Charmes <guillaume@charmes.net>
Guillaume Sottas <guillaumesottas@gmail.com>
Gnther Noack <gnoack@google.com>
Guobiao Mei <meiguobiao@gmail.com>
Guoliang Wang <siamwgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavofranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwen.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <sgungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
HAMANO Tsukasa <hamano@osstech.co.jp>
Han-Wen Nienhuys <hanwen@google.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hallazzang@gmail.com>
Hanlin Shi <shihanlin9@gmail.com>
Haoran Luo <haoran.luo@chaiin.com>
Haosdent Huang <haosdent@gmail.com>
Harald Nordgren <haraldnordgren@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Hariharan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <moreno149@gmail.com>
Harshavardhana <shrshvardhana@gmail.com>
Hasan Ozgan <hasan@ozgan.net>
Hasit Bhatt <hasit.p.bhatt@gmail.com>
Hauke Lffler <hloeffler@users.noreply.github.com>
Hvard Haugen <havard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Hein Khant Zaw <heinkhantzaw1@gmail.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henrique Vicente <henriquevicente@gmail.com>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyueng@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Henry Wong <liushuai.wang@elastic.co>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@google.com>
Heschi Kreinick <heschi@youtube.com>
Hidetatsu Yaginuma <ygnmhdtt@gmail.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanmiquel <marcsanmiquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpv1@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Gazerro <gazerro@open2b.com>
Marco Hennings <marco.hennings@freheit.com>
Marcus Weiner <marcus.weiner@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuennerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Dain <mark@markdain.net>
Mark Glines <mark@glines.org>
Mark Harrison <marharr@gmail.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@gmail.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudринic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Asquino <martin.asquino@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@gmail.com>
Rahul Wadhwani <rahulwadhwani21@gmail.com>
Raif S. Naïfah <go@naifah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Raph Leiven <raph@google.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Ravil Bikbulatov <weeellz12@gmail.com>
Ravi Teja Pothana <ravi.tezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Raymond Kazlauskas <raima220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillyWatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Remy Oudompheng <oudomph@phare.normalesup.org> <remyoudompheng@gmail.com>
Ren Ogaki <re.yuz7777@gmail.com>
Rens Rikkerink <Ikkerens@users.noreply.github.com>
Rhys Hiltner <rhys@justin.tv>
Ricardo Padelha <ricardopadelha@gmail.com>
Ricardo Pchevuzinske Katz <ricardo.katz@serpro.gov.br>
Ricardo Seriani <ricardo.seriani@gmail.com>
Richard Barnes <rlb@ipv.sx>
Richard Crowley <r@rcrowley.org>
Richard Dingwall <rdingwall@gmail.com>
Richard Eric Gavaletz <gavaletz@gmail.com>
Richard Gibson <richard.gibson@gmail.com>
Richard Miller <miller.research@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Richard Ulmer <codesoap@mailbox.org>
Richard Wilkes <wilkes@me.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rlh@golang.org>
Rick Sayre <whorfin@gmail.com>
Rijnard van Tonder <rvantonder@gmail.com>
Riku Voipio <riku.voipio@linaro.org>
Risto Jaakko Saarelma <RSAarelm@gmail.com>
Rob Earhart <earhart@google.com>
Rob Findley <rfindley@google.com>
Rob Norman <rob.norman@infinitycloud.com>
Rob Phoenix <rob@robpheoenix.com>
Rob Pike <r@golang.org>
Robert Ayrapetyan <robert.ayrapetyan@gmail.com>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Ragan <ragansa@fb.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@google.com>
Sean Chen <ooohcode@gmail.com>
Sean Chittenden <sean@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Hildebrand <seanwhildebrand@gmail.com>
Sean Liao <seankhliao@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Chlopecki <sebsebmc@gmail.com>
Sebastian Kinne <skinne@google.com>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Lemeshkin <sergeilem@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergey Zagurskii <gvozdoder@gmail.com>
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synesis.ru>
Sergey Frolov <sfrolov@facebook.com>
Sergey Glushchenko <gsforge@gmail.com>
Sergey Ivanov <ser1325@gmail.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhat Giydiren <serhatgiydiren@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shailesh Suryawanshi <ssshailesh28@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shang Jian Ding <ding3@ncsu.edu>
Shaozhen Ding <dsz0111@gmail.com>
Shaquille Que <shaquille@golang.org>
Shaquille Wyan Que <shaqqywyan@gmail.com>
Shaun Dunning <shaun.dunning@msn.com>
Shawn Elliott <selliot@microsoft.com>
Shawn Ledbetter <sledbetter@google.com>
Shawn Smith <shawn.r.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengjing Zhu <zsj950618@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
ShihCheng Tu <mrtoastcheng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shin Fan <shinfan@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shinnosuke Sawada <6warashi9@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivani Singhal <shivani.singhal2804@gmail.com>
Shivam Rai <shivam@freebsd.org>
Shivashis Padhi <shivashispadhi@gmail.com>
Shubham Sharma <shubham.sha12@gmail.com>
Shun Fan <sfan@gmail.com>
Silvan Jegen <s.jegen@gmail.com>
Simarpreet Singh <simar@linux.com>
Simon Drake <simondrake1990@gmail.com>
Simon Ferquel <simon.ferquel1@docker.com>
Simon Frei <freisim93@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Rozman <simon@rozman.si>
Simon Ser <contact@emersion.fr>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chennova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Songjiaoyang <songjiaoyang1@gmail.com>
Soojin Nam <jsunam@gmail.com>
Sren L. Hansen <soren@linux2go.dk>
Sparrow Li <liyuancylv@gmail.com>
Spencer Kocot <spencerkocot@gmail.com>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@google.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@google.com>
Sridhar Venkatkrishnan <sridhar@laddoo.net>
Srinidhi Kaushik <srinidhi.kaushik@gmail.com>
StalkR <stalkr@stalkr.net>
Stan Hu <stanhu@gmail.com>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baebler <sbaebler@outbrain.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabalin <neverliberty@gmail.com>
Stephan Klatt <stephan.klatt@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stephan Zuercher <zuercher@gmail.com>
Stphane Travostino <stephanetruvostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen Ma <stephem@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Mynott <steve.mynott@gmail.com>
Steve Newman <snewman@necoll.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeter <steve@stevestreetering.com>
Steve Traut <straut@google.com>
Steven Buss <sbus@google.com>
Stephen Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Maude <git@stevenmaude.co.uk>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Subham Sarkar <sarkar.subhams2@gmail.com>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssoucou@gmail.com>
Suharsh Sivakumar <suharshs@gmail.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@drowowlzz.space>
Suriyaa Sundararuban <suriyaa.sundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sven Taute <sven.taut@gmail.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadasvalu@gmail.com>
Tadeo Kondrak <me@tadeo.ca>
Taesu Pyo <pyotaesu@gmail.com>
Tai Le <letientai299@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@gmail.com>
Takashi Mima <tks.m1205@gmail.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@gmail.com>
Takuya Ueda <tuedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tams Gulcsi <tgulacsi78@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Qingyun <qingyunha@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terrinnjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanmc@gmail.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
The Hatsune Daishi <nnao20010128@gmail.com>
Thiago Avelino <tavelino.xxx>
Thiago Fransosi Farina <thiago.frina@gmail.com> <tfarina@chromium.org>
Thom Wiggers <thom@thomwiggers.nl>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Tom Panton <tom@tomandtally.co.uk>
Tom Parkin <tom.parkin@gmail.com>
Tom Payne <twpayne@gmail.com>
Tom Szymanski <tgs@google.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tom Zierbock <tomzierbock@gmail.com>
Tomas Dabasinskas <tommas@dabasinskas.net>
Tommy Schaefer <tommym.schaefer@teecom.com>
Tomohiro Kusumoto <zabio1192@gmail.com>
Tomoya Ishizaki <zaqtomo@gmail.com>
Tonis Tiigi <tonistiigi@gmail.com>
Tony Reix <tony.reix@bull.net>
Tony Walker <walkert.uk@gmail.com>
Tooru Takahashi <tooru.takahashi134@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Torben Schinke <storbenschinke@neotos.de>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshihiro Shiino <shiino.toshihiro@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevorstrohan@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <taminio1@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fn.lc>
Troels Thomsen <troels@thomsen.io>
Trong Bui <trong.buiquoc@gmail.com>
Trung Nguyen <trung.n.k@gmail.com>
Tsuji Daishiro <dram.dt.shonan@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuog@google.com>
Tyler Bui-Palsulich <tpalsulich@gmail.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tyson Andre <lysonandre775@gmail.com>
Tzach Shabtay <tzachshabtay@gmail.com>
Tzu-Chiao Yeh <su3g4284zo6y7@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Udalov Max <re.udalov@gmail.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangiparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Utkarsh Dixit <53217283+utkarsh-extc@users.noreply.github.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygontes <unixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Valentin Vidic <vvidic@valentin-vidic.from.hr>
Vee Zhang <veezhang@126.com> <veezhang@gmail.com>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturaev <vearutop@gmail.com>
Victor Chudnovsky <vchudnov@google.com>
Victor Michel <victor@optimyze.cloud>
Victor Vranitchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@gmail.com>
Ville Skytt <ville.skytta@iki.fi>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vinu Rajashekar <vinutheraj@gmail.com>
Vish Subramanian <vish@google.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara R <r.visweswara@gmail.com>
Vitaly Zdanevich <zdanevich.vitaly@ya.ru>
Vitor De Mario <vitordemario@gmail.com>
Vivek Sekhar <vsekhavar@gmail.com>
Vivek V <iamvivek96@gmail.com>
Vivian Liang <vliang88@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Evgrafov <evgrafov.vladimir@gmail.com>
Vladimir Kopyak <ct007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Vojtech Bocek <vbocek@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotski <vpaprots@ca.ibm.com>
W. Trevor King <wking@tremily.us>
Wade Simmons <wade@wades.im>
Wagner Riffel <wgriffel@gmail.com>
Walt Della <walt@javins.net>
Walter Poupore <wpoupore@google.com>
Wander Lairson Costa <wcosta@mozilla.com>
Wang Xuerui <git@ xen0n.name>
Warren Fernandes <warren.f.fernandes@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@google.com>
Weerasak Chongnguluam <singpor@gmail.com>
Wi Cngru <crv.mail@gmail.com>
Wei Fu <thfuwei@163.com>
Wei Guangjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Wei Xikai <xykwei@gmail.com>
Weichao Tang <tevic.tt@gmail.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
Wenlei (Frank) He <wlhe@google.com>
Wenzel Lowe <lowewenzel@gmail.com>
Wil Selwood <wselwood@gmail.com>
Wilfried Teiken <wteiken@google.com>
Will Beason <willbeason@gmail.com>
Will Chan <willchan@gmail.com>
Will Faught <will.faught@gmail.com>
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>
Will Norris <willorris@gmail.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Chang <mr.williamchang@gmail.com>
William Josephson <wjosephson@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
William Poussier <william.poussier@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xry23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xiangdong Ji <xiangdong.ji@arm.com>
Xiaodong Liu <teafmoli@gmail.com>
Xing Xing <mikespook@gmail.com>
Xingqang Bai <bxq2011hust@qq.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicealias.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzts@desire.sh>
Yan Zou <yzou@gmail.com>
Yang Hau <vulxj08j8@gmail.com>
Yang Tian <linuxty@gmail.com>
Yann Hodique <yhoodique@gmail.com>
Yann Kerherv <yann.kerherv@gmail.com>
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1.539 media-typer 0.3.0

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1.541 liberror-perl 0.17025-1

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1.542 brace-expansion 1.1.11

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1.543 go-yaml 2.2.2

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

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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:

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produce the work, or an object code interpreter used to run it.

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which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
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@item
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Version 3.1, 31 March 2009

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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package spec

// License information for the exposed API.

//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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1.568 conntrack-tools

1.4.4+snapshot20161117 6ubuntu2

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingConcurrentMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingListIterator.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/Throwables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/AbstractSetMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/Closeables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/EnumHashBiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingObject.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/Multisets.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/NaturalOrdering.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingList.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Interners.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/HashBiMap.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collections/MapMakerInternalMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collections/Cut.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collections/MapMaker.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collections/RegularImmutableTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Chars.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Tables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/MultiReader.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Range.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/MultiReader.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/net/PercentEscaper.java
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  jar/jersey/repackaged/com/google/common/collection/AbstractRangeSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/Count.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/primitives/UnsignedInteger.java
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  jar/jersey/repackaged/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
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  jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/base/MoreObjects.java
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1.574 kubernetes-apimachinery 0.0.0-20191004115801-a2eda9f80ab8

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1.575 tomb v2.0.0-20161208151619-d5d1b5820637
1.575.1 Available under license:
tomb - support for clean goroutine termination in Go.

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1.576 ms 2.0.0

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1.578 pyyaml 5.4.1
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1.579 inf 0.9.0

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1.580 ip-regex 4.3.0

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1.581 cyphar-filepath-securejoin 0.2.2

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1.582 winston-transport 4.4.0

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1.583 python-idna 2.6-1
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1.584 matrix 0.1.0

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1.585 watch-dog 0.8.3

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Jan Mercl <0xjnml@gmail.com>
Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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package api

import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
    Product string `json:"product"

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"

    // List of features enabled by the license
    Features []string `json:"features"
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query(`/v1/operator/license`, &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

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func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the built-in one if it is still valid.
// If the built-in license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil

Data model artifacts for Prometheus.
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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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 */

package minio

import ( 
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"

    "github.com/minio/minio-go/v6/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/RESTObjectPUTLegalHold.html
type objectLegalHold struct { 
    XMLNS string `xml:"xmlns,attr,omitempty"`
    XMLName xml.Name `xml:"LegalHold"`
Status   LegalHoldStatus {'xml:"Status,omempty"'}
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status \%v\", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ",")

    if opts.VersionID != "" {
    }

    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }

    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }

    reqMetadata := requestMetadata{
        bucketName: bucketName,
        objectName: objectName,
        queryValues: urlValues,
        contentBody: bytes.NewReader(lhData),
        contentLength: int64(len(lhData)),
        contentMD5Base64: sumMD5Base64(lhData),
        contentSHA256Hex: sum256Hex(lhData),
    }

    // Execute PUT Object Legal Hold.
    resp, err := c.executeMethod(context.Background(), "PUT", reqMetadata)
    defer closeResponse(resp)
    if err != nil {
        return err
    }

    if resp != nil {
            return httpRespToErrorResponse(resp, bucketName, objectName)
        }
    }

    return nil
}
// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(bucketName, objectName string, opts GetObjectLegalHoldOptions) (*LegalHoldStatus, error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }

    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(context.Background(), "GET", requestMetadata{
        bucketName:   bucketName,
        objectName:   objectName,
        queryValues:  urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {
        if resp.StatusCode != http.StatusOK {
            return nil, httpRespToErrorResponse(resp, bucketName, objectName)
        }
    }
    lh := &objectLegalHold{
    }
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }

    return &lh.Status, nil
}
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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <light@google.com>
Sarah Adams <shadams@google.com>
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// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:      "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
        Value: types.KeyValue{
        }}
    }
}
Key: "serialuri:2",
Value: "Remote virtual Serial Port Concentrator",
},
},
{
Key: "feature",
Value: types.KeyValue{
Key:   "dvs",
Value: "vSphere Distributed Switch",
},
},
},
,
}

type LicenseManager struct {
mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{ },
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels: req.Labels,
    })
Open Source Used In SMI 2021.01.0-Jan-2022 9681

body.Res.Returnval = licenseInfo(reqLICENSEKey, req.Labels)

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if reqLICENSEKey == license.LICENSEKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if reqLICENSEKey != license.LICENSEKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
                } else {
                    label.Value = req.LabelValue
                }
            }
        }

        license.Labels = append(license.Labels, types.KeyValue{
            Key: req.LabelKey,
            Value: req.LabelValue,
        })
    }
}

license.Labels = append(license.Labels, types.KeyValue{
return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {EntityId: req.EntityId, AssignedLicense: EvalLicense},
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels
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return info
}
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Andy Hochhaus <hochhaus@users.noreply.github.com>
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package migration

import "fmt"

// Notice is a migration warning

type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const {
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated  = "deprecated" // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
}
newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
unsupported = "unsupported" // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses
)

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- Copy files to and from Containers in a cluster

# 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

Copy requires that *tar* be installed in the container image.

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
```

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
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
```
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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoelman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Vyacheslav Kim <kane@sendgrid.com>
Walter Schulze <awalterschulze@gmail.com>

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tomb - support for clean goroutine termination in Go.

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1.612 markupsafe 1.1.1
1.612.1 Available under license :

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/**
 * markupsafe_speedups
 * ~~~~~~~~~~~~~~~~~~~
 * * C implementation of escaping for better performance. Used instead of
 * * the native Python implementation when compiled.
 * *
 * :copyright: 2010 Pallets
 * :license: BSD-3-Clause
 */

Found in path(s):
* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-tar-gz/sailfishos-mirror-markupsafe-22c946d/src/markupsafe/_speedups.c

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* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-targgz/sailfishos-mirror-markupsafe-22c946d/LICENSE.rst

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* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-targgz/sailfishos-mirror-markupsafe-22c946d/src/markupsafe/_constants.py
* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-targgz/sailfishos-mirror-markupsafe-22c946d/src/markupsafe/__init__.py
* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-targgz/sailfishos-mirror-markupsafe-22c946d/src/markupsafe/_compat.py

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Found in path(s):
* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-targgz/sailfishos-mirror-markupsafe-22c946d/README.rst
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1.613 go-kit 0.10.0
1.613.1 Available under license:
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1.614 msr-tools 1.3-2build1

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1.615 aws-sdk-go-v2 1.1.0

1.615.1 Available under license :

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package licensemanager

import (  
    "context"  
    awwsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)

// Deletes the specified license.  
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {  
    if params == nil {  
        params = &DeleteLicenseInput{}  
    }
}
result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil

// Amazon Resource Name (ARN) of the license.
// This member is required.
LicenseArn *string

// Current version of the license.
// This member is required.
SourceVersion *string

// Date on which the license is deleted.
DeletionDate *string

// License status.
// Metadata pertaining to the operation's result.
Status types.LicenseDeletionStatus
ResultMetadata middleware.Metadata

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

}
// Filters to scope the results. The following filters are supported:
//
// * ProductSKU
// * Status
// * KeyFingerprint
// * Issuer
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    return nil
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
Open Source Used In SMI 2021.01.0-Jan-2022  9912

awsmiddleware.RegisterServiceMetadata {
    Region: region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListReceivedLicenses",
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.

    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata
type CreateLicenseOutput struct {

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License status.
    Status types.LicenseStatus

    // License version.
    Version *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
)
// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
    addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
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}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (   "context"
// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...
  func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
  if params == nil {
    params = \&CheckoutBorrowLicenseInput{ }
  }

  result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
      addOperationCheckoutBorrowLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*CheckoutBorrowLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type CheckoutBorrowLicenseInput struct {

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // Digital signature method. The possible value is JSON Web Signature (JWS)
  // algorithm PS384. For more information, see RFC 7518 Digital Signature with
  //
  // This member is required.
  DigitalSignatureMethod types.DigitalSignatureMethod

  // License entitlements. Partial checkouts are not supported.
  //
  // This member is required.
  Entitlements []types.EntitlementData

  // Amazon Resource Name (ARN) of the license. The license must use the borrow
  // consumption configuration.
  //
This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

// CheckoutBorrowLicenseOutput struct {
// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
    addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}
type ListLicensesInput struct {
  // Filters to scope the results. The following filters are supported:
  //
  // * Beneficiary
  // * ProductSKU
  // * KeyFingerprint
  // * Status
  Filters []types.Filter

  // Amazon Resource Names (ARNs) of the licenses.
  LicenseArns []string

  // Maximum number of results to return in a single call.
  MaxResults *int32

  // Token for the next set of results.
  NextToken *string
}

type ListLicensesOutput struct {

  // License details.
  Licenses []types.License

  // Token for the next set of results.
  NextToken *string

  // Metadata pertaining to the operation's result.
  ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }

  if err != nil {
    return err
  }

  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}
type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
  return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
  return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
  return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
  return &awsmiddleware.RegisterServiceMetadata{
    Region:  region,
    ServiceID:  ServiceID,
    SigningName:  "license-manager",
    OperationName:  "GetLicense",
  }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
    addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {
    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string
    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

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1.616 blinker 1.4+dfsg1 0.1

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io.helidon.config.yaml.internal.YamlConfigParser

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1.619 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.3

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/* Document-class: BigDecimal
 * BigDecimal provides arbitrary-precision floating point decimal arithmetic.
 *
 * == Introduction
 *
 * Ruby provides built-in support for arbitrary precision integer arithmetic.
 *
 * For example:
 *
 * 42**13 #=> 1265437718438866624512
 *
 * BigDecimal provides similar support for very large or very accurate floating
 * point numbers.
 *
 * Decimal arithmetic is also useful for general calculation, because it
 * provides the correct answers people expect--whereas normal binary floating
 * point arithmetic often introduces subtle errors because of the conversion
 * between base 10 and base 2.
 *
 * For example, try:
 *
 * sum = 0
 * 10_000.times do
 *   sum = sum + 0.0001
 * end
 * print sum #=> 0.9999999999999062
 *
 * and contrast with the output from:
 *
 * require 'bigdecimal'
 *
 * sum = BigDecimal("0")
 * 10_000.times do
 *   sum = sum + BigDecimal("0.0001")
 * end
* print sum #=> 0.1E1
*
* Similarly:
*
*(BigDecimal("1.2") - BigDecimal("1.0")) == BigDecimal("0.2") #=> true
*
*(1.2 - 1.0) == 0.2 #=> false
*
* == Special features of accurate decimal arithmetic
*
* Because BigDecimal is more accurate than normal binary floating point
* arithmetic, it requires some special values.
*
* === Infinity
*
* BigDecimal sometimes needs to return infinity, for example if you divide
* a value by zero.
*
*BigDecimal("1.0") / BigDecimal("0.0") #=> Infinity
*BigDecimal("-1.0") / BigDecimal("0.0") #=> -Infinity
*
* You can represent infinite numbers to BigDecimal using the strings
* <code>'Infinity'</code>, <code>'+Infinity'</code> and
* <code>'-Infinity'</code> (case-sensitive)
*
* === Not a Number
*
* When a computation results in an undefined value, the special value +NaN+
* (for ‘not a number’) is returned.
*
* Example:
*
*BigDecimal("0.0") / BigDecimal("0.0") #=> NaN
*
* You can also create undefined values.
*
* NaN is never considered to be the same as any other value, even NaN itself:
*
*n = BigDecimal('NaN')
*n == 0.0 #=> false
*n == n #=> false
*
* === Positive and negative zero
*
* If a computation results in a value which is too small to be represented as
* a BigDecimal within the currently specified limits of precision, zero must
* be returned.
* If the value which is too small to be represented is negative, a BigDecimal
* value of negative zero is returned.
*
*BigDecimal("1.0") / BigDecimal("-Infinity") #=> -0.0
*
* If the value is positive, a value of positive zero is returned.
*
*BigDecimal("1.0") / BigDecimal("Infinity") #=> 0.0
*
* (See BigDecimal.mode for how to specify limits of precision.)
*
* Note that +0.0+ and +0.0+ are considered to be the same for the purposes of
* comparison.
*
* Note also that in mathematics, there is no particular concept of negative
* or positive zero; true mathematical zero has no sign.
*
* == bigdecimal/util
*
* When you require +bigdecimal/util+, the #to_d method will be
* available on BigDecimal and the native Integer, Float, Rational,
* and String classes:
*
*require 'bigdecimal/util'
*
* 42.to_d         #=> 0.42e2
* 0.5.to_d        #=> 0.5e0
* (2/3r).to_d(3)  #=> 0.667e0
* "0.5".to_d      #=> 0.5e0
*
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*
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*/

Found in path(s):
* /opt/cola/permits/1154561509_1618866929.81/0/bigdecimal-1-4-1-gem/data-tar-gz/ext/bigdecimal/bigdecimal.c
1.627 python-attrs 17.4.0-2

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1.628 is-glob 4.0.3

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1.629 dropwizard-util 1.3.29

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1.630 qs 6.5.2

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

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winsup\cygserver\sysv_shm.cc

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Version 3.1, 31 March 2009

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**1.639 networkd-dispatcher 1.7 0ubuntu3.3**

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1.643 go-cos 0.13.0

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1.645 semver 7.3.5
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procfs provides functions to retrieve system, kernel and process 
metrics from the pseudo-filesystem proc.

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1.648 idna 2.10

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* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/LICENSE.rst

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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.

===

code:

```python
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',
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            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Programming Language :: Python :: 3.7',
            'Programming Language :: Python :: 3.8',
            'Programming Language :: Python :: Implementation :: CPython',
            'Programming Language :: Python :: Implementation :: PyPy',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
```
setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py

1.649 liblua 5.2.4-1.1build1

1.649.1 Available under license:
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1.651 kubernetes-sigs-cri-tools v1.19.0

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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tomb - support for clean goroutine termination in Go.

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

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

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

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

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 (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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a “work based on the library” and a “work that uses the library”. The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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 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

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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
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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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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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END OF TERMS AND CONDITIONS

The test programs in this directory tree are for demonstrating and testing the functionality of the SDL library, and are placed in the public domain.

October 28, 1997

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
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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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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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Upstream Authors:

Cdric Augonnet <Cedric.Augonnet@labri.fr>
Jrme Clet-Ortega <Jerome.Clet-Ortega@labri.fr>
Ludovic Courts <Ludovic.Courtes@inria.fr>
Brice Goglin <Brice.Goglin@inria.fr>
Nathalie Furmento <Nathalie.Furmento@labri.fr>
Samuel Thibault <Samuel.Thibault@labri.fr>
Jeff Squyres <jsquyres@cisco.com>

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1.679 mdadm 4.1~rc1 3~ubuntu18.04.4

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

The mdadm source was downloaded from http://www.kernel.org/pub/linux/utils/raid/mdadm/

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1.699 npm-package-arg 8.1.5

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1.700 mitchellh-mapstructure 1.1.2

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1.704 go-openapi-strfmt 0.20.0

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1.707 diff 5.0.0

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#
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#
# Names should be added to this file as:
# Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
Andrew Hunter <andrewhhunter@gmail.com>

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# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Jensen <jensen.aaro@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Sheah <aaronsheah@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Mitha <adam.mitha@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Adel Rodriguez <adel.rodriguez@leftfieldlabs.com>
Adin Scannell <ascannell@google.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aecdiodatasjunior@gmail.com>
Aeneas Rekkas (arekkkas) <aeneas@ory.am>
Afanasev Stanislav <phpprogger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed W. Mones <oneofone@gmail.com>
Ahmet Aktrk <aakturk000@gmail.com>
Ahmet Alp Balk <ahmetdb@google.com>
Ahmet Soormally <ahmet@mangomm.co.uk>
Ahmy Yulrizka <yulrizka@gmail.com>
Ahsun Ahmed <ahmed.ahsun@gmail.com>
Aidan Coyle <packrat386@gmail.com>
Aiden Scandella <ai@uber.com>
Ainar Garipov <gugl.zadolbal@gmail.com>
Aishraj Dahal <aishraj@users.noreply.github.com>
Ajanthan Balachandran <balaajanthan@gmail.com>
Akhil Indurti <aindurti@gmail.com>
Akihiro Suda <suda.kyoto@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Al Cutter <al@google.com>
Alan Braithwaite <alan@ipaddr.org>
Alan Donovan <adonovan@google.com>
Alan Shreve <alan@inconshreveable.com>
Albert Nigmatzianov <albertnigma@gmail.com>
Albert Strasheim <fullung@gmail.com>
Albert Teoh <albert.teoh@gmail.com>
Albert Yu <yukinying@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahiro.com> <alberto.garcia.hierro@gmail.com>
Alec Benzer <alec.benzer@gmail.com>
Alejandro Garca Montoro <alejandro.garciamontoro@gmail.com>
Aleksa Sarai <cyphar@cyphar.com>
Aleksandar Dezelin <dezelin@gmail.com>
Aleksandr Lukinykh <a.lukinykh@xsolla.com>
Aleksandr Razumov <ar@cydev.ru>
Alekssee Artem <a.artem060@gmail.com>
Alekssei Tirman <aleksei.tirman@jetbrains.com>
Alessandro Arzilli <alessandro.arzilli@gmail.com>
Alessandro Baffa <alessandro.baffa@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alex.brainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Browne <stephenalexbrowne@gmail.com>
Alex Buchanan <buchanae@gmail.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Le Roy <brompwnie@users.noreply.github.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <cavityliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris Marchesi <chris@vancluevertex.com>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrsmith@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Taylor <taylorza@gmail.com>
Chris Waldon <christopher.waldon.dev@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christian Muehlhaeuser <muesli@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christian Svensson <blue@cmd.nu>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Hlubek <christopher.hlubek@networkteam.com>
Christopher Koch <chrisko@google.com>
Christopher Loessl <cloessl+github@gmail.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <csswenson@google.com>
Christopher Thomas <53317512+chrisstthomas@users.noreply.github.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Chisty Perez <chisty@linux.vnet.ibm.com>
CL Sung <celsung@gmail.com> <cl_sung@htc.com>
Clment Chigot <clement.chigot@atos.net>
Danil de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingramds@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gni.net>
Daniel Kessler <dkess@google.com>
Daniel Krech <eikeon@eikeon.com>
Daniel Kumor <rdkumor@gmail.com>
Daniel Langner <s8572327@gmail.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Lublin <daniel@lublin.se>
Daniel Mangum <georgedanielmangum@gmail.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel McCarney <cpu@letsencrypt.org>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@google.com>
Daniel Nephin <dnephim@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel S. Fava <danielsfava@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daniela Petruzalek <daniela.petruzalek@gmail.com>
Danish Dua <danishdua@gmail.com>
Danish Prakash <graftyonconcept@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymond <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darren Grant <darene.grant@gmail.com>
Darren McCleary <darren.mc@gmail.com>
Darshan Parajuli <parajulidarshan@gmail.com>
Datong Sun <dndx@idndx.com>
Dave Borowitz <dborahowitz@gmail.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrgijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Pifke <dave@pifke.org>
Dave Russell <forfunesake@gmail.com>
David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@google.com>
David Black <dblack@atlassian.com>
David Bond <davidsbond93@gmail.com>
David Brophy <dave@brophy.uk>
Donald Huang <don.hcd@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@google.com>
Doug Fawley <dfawley@google.com>
Douglas Danger Manley <doug.manley@gmail.com>
Drew Flower <drewvanstone@gmail.com>
Drew Hintz <adhintz@gmail.com>
Drew Richardson <drewrichardson@gmail.com>
Duco van Amstel <duco.vanamstel@gmail.com>
Duncan Holm <mail@frou.org>
Dustin Carlino <dcarlino@google.com>
Dustin Herbison <djherbis@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Dvîr Volk <dvir@everything.me> <dvirsky@gmail.com>
Dylan Waits <dylan@waits.io>
Ed Schouten <ed@nuxi.nl>
Edan Bedrik <3d4nb3@gmail.com>
Eddie Scholtz <escholtz@google.com>
Eden Li <eden.li@gmail.com>
Eduard Urbach <e.urbach@gmail.com>
Eduardo Ramalho <eduardo.ramalho@gmail.com>
Eduardo Villaseor <evillasrmx@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Uggedal <eivind@uggedal.com>
El Mostafa Idrassi <el.mostafa.idrassi@gmail.com>
Elbert Fliék <efliék@gmail.com>
Eldar Rakhimberdin <ibeono@gmail.com>
Elena Grahovac <elena@grahovac.me>
Eli Bendersky <eliben@google.com>
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Ellison Leao <ellisonleao@gmail.com>
Elvina Yakubova <elvinayakubova@gmail.com>
Emerson Lin <linyintor@gmail.com>
Emil Bektimirov <lefelys@gmail.com>
Emil Hessman <emil@hessman.se>
Emil Mursalimov <mursalimovemeel@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Emrecan Bati <emrecanbati@gmail.com>
Eno Compton <enocom@google.com>
Eoghan Sherry <ejsherry@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedf@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fsahriar@gmail.com>
Federico Bond <federicobond@gmail.com>
Federico Guerinoni <guerinoni.federico@gmail.com>
Federico Simoncelli <fsimonce@redhat.com>
Fedor Indutny <fedor@indutny.com>
Fedor Korotkiy <dartslon@gmail.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Bnemann <Felix.Buenemann@gmail.com>
Felix Cornelius <9767036+fcornelius@users.noreply.github.com>
Felix Geisendrfer <haimuiba@gmail.com>
Felix Kollmann <fk@konsorten.de>
Ferenc Szabo <frncmnx@gmail.com>
Fernandez Ludovic <lfdez.dev@gmail.com>
Filip Gruszczynski <gruszczyn@gmail.com>
Filip Haglund <draphier@users.noreply.github.com>
Filip Stanis <fstanis@google.com>
Filippo Valsorda <filippo@golang.org> <filippo@cloudfare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Forster <octo@gmail.com>
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>
Florian Weimer <fw@deno.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francesco Guardiani <francescoguard@gmail.com>
Francesco Renzi <rentziass@gmail.com>
Francisco Claude <fclaude@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscosouza@gmail.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <fsomers@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Frederik Zipp <fzipp@gmx.de>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
GitHub User @OlgaVPetrova (44112727) <OVPpetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopokutuna@gmail.com>
GitHub User @povsister (11040951) <pov@mahou-shoujo.moe>
GitHub User @pytimer (17105586) <dixin20101023@gmail.com>
GitHub User @qcrao (7698088) <qcrao91@gmail.com>
GitHub User @ramenjunjiti (32011829) <ramenjunjiti@gmail.com>
GitHub User @sairanreddy (21041941) <sairanreddypalla@gmail.com>
GitHub User @SataQiu (9354727) <shidaqiu2018@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @sivchari (55221074) <shibuuu5@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @soolaugust (10558124) <soolaugust@gmail.com>
GitHub User @surechen (7249331) <surechen17@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashio (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uji (49834542) <ujipro@gmail.com>
GitHub User @unbyte (5772358) <i@shangyes.net>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @wolf1996 (5901874) <ksgiv37@gmail.com>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebsteanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Grace Han <hgrace503@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Green Lightning <GreenLightning.git@googlemail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@gmail.com>
Greg Thelen <gthelen@google.com>
Greg Ward <greg@gerg.ca>
Gregoire Delattre <gregoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Gregory Petrosyan <gregory.petrosyan@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guilherme Souza <32180229+gqqs@users.noreply.github.com>
Guillaume J. Charmes <guillaume@charmes.net>
Guillaume Sottas <guillaumesottas@gmail.com>
Gnther Noack <gnoack@google.com>
Guobiao Mei <meiguobiao@gmail.com>
Guodong Li <guodongli@google.com>
Guoliang Wang <siamwgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavofranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwenn.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
HAMANO Tsukasa <hamano@osstech.co.jp>
Han-Wen Nienhuys <hanwen@google.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hallazzang@gmail.com>
Hanlin He <hanling.he@gmail.com>
Hanlin Shi <shihanlin9@gmail.com>
Haoran Luo <haoran.luo@chaitin.com>
Haosdent Huang <haosdent@gmail.com>
Harald Nordgren <haraldnordgren@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Harirahan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <morenoh149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hasan Ozgan <hasan@ozgan.net>
Hasit Bhatt <hasit.p.bhatt@gmail.com>
Hauke Lffler <hloeffler@users.noreply.github.com>
Hvard Haugen <havard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Hein Khant Zaw <heinkhantzawl@gmail.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henrique Vicente <henriquevicente@gmail.com>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyu.heng@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Henry Wong <liushui.wang@elastic.co>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@google.com>
Heschi Kreinick <heschi@gmail.com>
Hidetatsu Yaginuma <ygnmhdt@gmail.com>
Hilko Bengen <bengen@hilluzination.de>
Himanshu Kishna Srivastava <28himanshu@gmail.com>
Hiroaki Nakamura <hnakamur@gmail.com>
Hiromichi Ema <ema.hiro@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <ttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Horacio Duran <horacio.duran@gmail.com>
Horst Rutter <hrrutter@gmail.com>
Hossein Sheikh Attar <hattar@gmail.com>
Hossein Zolfi <hossein.zolfi@gmail.com>
Howard Zhang <howard.zhang@arm.com>
Hsin Tsao <tsao@gmail.com>
Hsin-Ho Yeh <yhh92u@gmail.com>
Hu Keping <hukeping@huawei.com>
Huan Du <i@huandu.me>
Hugues Bruant <hugues.bruant@gmail.com>
Huy Le <huy.dinh.le.89@gmail.com>
Hyang-Ah Hana Kim <hakim@gmail.com> <hyangah@gmail.com>
Hyoyoung Chang <hyoyoung@gmail.com>
Ian Cottrell <iancottrell@gmail.com>
Ian Davis <nospam@ian.davis.com>
Ian Gudger <ian@loosescre.ws>
Ian Haken <ihaken@netflix.com>
Ian Kent <iankent85@gmail.com>
Ian Lance Taylor <iant@golang.org>
Ian Leue <ian@appboy.com>
Ian Mckay <iannt036@gmail.com>
Ian Tay <iantay@gmail.com>
Ian Zapolsky <ianzapol@gmail.com>
Ibrahim AshShohail <ibra.sho@gmail.com>
Icarus Sparry <golang@icarus.freeuk.com>
Iccha Sethi <icchasethi@gmail.com>
Ichinose Shogo <shogo82148@gmail.com>
Idora Shinatose <idora.shinatose@gmail.com>
Ignacio Hagopian <jsign.uy@gmail.com>
Igor Bernstein <igor.bernstein@gmail.com>
Jens Frederich <jfrederich@gmail.com>
Jeremiah Harmsen <jeremiah@google.com>
Jeremy Banks <Jeremy.ca>
Jeremy Canady <jcanady@gmail.com>
Jeremy Faller <jeremy@golang.org>
Jeremy Jackins <jeremyjackins@gmail.com>
Jeremy Jay <jeremy@pbnjay.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jero Bado <tokidokitalkyou@gmail.com>
Jeroen Bobbeldijk <jerobob92@gmail.com>
Jeroen Simonetti <jeroen@simonetti.nl>
Jrme Doucet <jer dct@gmail.com>
Jerrin Shaji George <jerrinsg@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jesse Szwedko <jesse.szwedko@gmail.com>
Jess Espino <jespinog@gmail.com>
Jia Zhan <jzhan@uber.com>
Jiacai Liu <jiacai2050@gmail.com>
Jiahao Lu <lujjh@gmail.com>
Jianing Yu <jnyu@google.com>
Jianqiao Li <jianqiaoli@gmail.com>
Jiayu Yi <yijiayu@gmail.com>
Jie Ma <jenius@outlook.com>
Jihyun Yu <yjh0502@gmail.com>
Jim Cote <jfcote87@gmail.com>
Jim Kingdon <jim@bolt.me>
Jim McGrath <jimmc2@gmail.com>
Jim Minter <jminter@redhat.com>
Jimmy Frasche <soapboxcicero@gmail.com>
Jimmy Zelinskie <jimmyzelinskie@gmail.com>
Jin-wook Jeong <jeweljar@hanmail.net>
Jingcheng Zhang <diogin@gmail.com>
Jingguo Yao <yaojingguo@gmail.com>
Jingnan Si <jingnan.si@gmail.com>
Jinkun Zhang <franksnolf@gmail.com>
Jiong Du <londevil@gmail.com>
Jirka Dank <dnk@mail.muni.cz>
Jiulong Wang <jiulongw@gmail.com>
Joakim Sernbrant <serbaut@gmail.com>
Joe Bowbeer <joe.bowbeer@gmail.com>
Joe Cortopassi <joe@joecortopassi.com>
Joe Farrell <joe2farrell@gmail.com>
Joe Harrison <joe.hazzers@gmail.com>
Joe Henke <joed.henke@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Joe Poirier <jdpoirier@gmail.com>
Joe Richey <joerichey@gmail.com>
Joe Shaw <joe@joeshaw.org>
JP Sugarbroad <jpsugar@google.com>
JT Olds <jtolds@xnet5.com>
JT Olio <jtolio@gmail.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebpereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmovj@gmail.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julian Tibble <julian.tibble@gmail.com>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kauffmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julien Tant <julien@craftyx.fr>
Julio Montes <julio.montes@intel.com>
Jun Zhang <jim.zoumo@gmail.com>
Junchen Li <junchen.li@arm.com>
Junda Liu <junda@celer.network>
Jungho Ahn <jhahn@gmail.com>
Junya Hayashi <ledmonster@gmail.com>
Juraj Sukop <sukop@users.noreply.github.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <jgracenin@gmail.com>
Justin Li <git@justinli.net>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justyntemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Dong <dokia2357@gmail.com>
Kai Lke <kai@kinvolk.io>
Kai Trukenniller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kalman Bekesi <kalmanb@google.com>
Kamal Aboul-Hosn <aboulhosn@google.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukangustc@gmail.com>
Kanta Ebihara <kantaebihara@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karoly Negyesi <chx1975@gmail.com>
Karsten Khler <karsten.koehler95@gmail.com>
Karthik Nayak <karthik.188@gmail.com>
Kashav Madan <kshvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Katharine Berry <ktbry@google.com>
Katie Hockman <katie@golang.org>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>
Kay Zhu <kayzhu@gmail.com>
Kazuhiro Sera <seratch@gmail.com>
KB Sriram <kbsriram@gmail.com>
Keegan Carruthers-Smith <keegan.csmith@gmail.com>
Kei Son <hey.calmdown@gmail.com>
Keiichi Hirobe <chalenge.akane@gmail.com>
Keiji Yoshida <keijiyoshida.mail@gmail.com>
Keisuke Kishimoto <keisuke.kishimoto@gmail.com>
Keith Ball <inflatablewoman@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <khr@xph.us>
Kelly Heller <pestophagous@gmail.com>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Kemal Elmizan <kemalelmizan@gmail.com>
Ken Friedenbach <kenliz@cruzio.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>
Kenichi Tsunokawa <kenichi.tsunokawa@gmail.com>
Kenji Kaneda <kenji.kaneda@gmail.com>
Kenji Yano <kenji.yano@gmail.com>
Kenneth Shaw <kenshaw@gmail.com>
Kenny Grant <kennygrant@gmail.com>
Kensei Nakada <handbomusic@gmail.com>
Kenta Mori <zoncoen@gmail.com>
Kerollos Magdy <kerolloz@yahoo.com>
Ketan Parmar <ketanbparmar@gmail.com>
Kevan Swanberg <kevswanberg@gmail.com>
Kevin Albertson <kevin.albertson@mongodb.com>
Kevin Ballard <kevin@sb.org>
Kevin Burke <kev@inburke.com>
Kvin Dunglas <dunglas@gmail.com>
Kevin Gillette <extemporalgenome@gmail.com>
Kevin Herro <kevin109104@gmail.com>
Kevin Kirsche <kev.kirsche@gmail.com>
Kevin Klues <klueska@gmail.com> <klueska@gmail.com>
Kevin Malachowski <chowski@google.com>
Kevin Parsons <kevpar@microsoft.com>
Kevin Ruffin <kruffin@gmail.com>
Kevin Vu <kevin.m.vu@gmail.com>
Kevin Zita <bleedgreenandgold@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuennerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Dain <mark@markdain.net>
Mark Glines <mark@glines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@google.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Asquino <martin.asquino@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kreichgauer <martinkr@gmail.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <moeohrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinsonsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <anty.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Masaya Watanabe <sfbgwm30@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thattryyer@gmail.com>
Mt Gulyas <mgulyas86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapinski <czapkofan@gmail.com>
Matheus Alcantara <matheussilv97@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Masurka <masurka@google.com>
Matt Pearring <broskies@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsey <mdempsky@google.com>
Matthew Denton <mdenton@skypportsystem.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matt.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthias Frei <matthias.frei@inf.ethz.ch>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petr Jed <petr.jediny@gmail.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <spdp@golang.org>
Philip Borgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Sauter <sauterp@protonmail.com>
Philipp Stephani <phst@google.com>
Philip Campbell <15082+phille@users.noreply.github.com>
Pierre Carru <pierre.carru@eshard.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellopiers.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Poh Zi How <poh.zihow@gmail.com>
Polina Osadcha <polliosa@google.com>
Pontus Leitzler <leitzler@gmail.com>
Povilas Versockas <p.versockas@gmail.com>
Prajwal Koirala <16564273+Prajwal-Koirala@users.noreply.github.com>
Prasanga Siripala <pj@pjebs.com.au>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Agrawal <prashant.a.vjti@gmail.com>
Prashant Varanasi <prashant@prashantv.com>
Praveen Kumar <praveen+git@kumar.in>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Pure White <wu.purewhite@gmail.com>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <slsh1022@gmail.com>
Quan Tran <qued.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quey-Liang Kao <s101062801@m101.nthu.edu.tw>
Quim Muntal <quimmuntal@gmail.com>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Ross Light <light@google.com> <rlight2@gmail.com>
Ross Smith II <ross@smithii.com>
Rowan Marshall <rowanajmarshall@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rudi Kramer <rudi.kramer@gmail.com>
Rui Ueyama <ruui@google.com>
Ruixin Bao <ruixinbao@ibm.com>
Ruslan Andreev <ruslan.andreev@huawei.com>
Ruslan Nigmatullin <elessar@dropbox.com>
Russ Cox <rsc@golang.org>
Russell Haering <russellhaering@gmail.com>
Ryan Bagwell <ryanbagwell@outlook.com>
Ryan Barrett <ryanb@gmail.com>
Ryan Boehning <ryan.boehning@apcera.com>
Ryan Brown <ribrdb@gmail.com>
Ryan Canty <jrcanty@gmail.com>
Ryan Dahl <ry@tinyclouds.org>
Ryan Hitchman <hitchmanr@gmail.com>
Ryan Kohler <ryankohler@gmail.com>
Ryan Lower <rpjlower@gmail.com>
Ryan Roden-Corrent <ryan@rcorre.net>
Ryan Seys <ryan@ryanseys.com>
Ryan Slade <ryanslade@gmail.com>
Ryan Zhang <ryan.zhang@docker.com>
Ryoichi KATO <ryo1kato@gmail.com>
Ryoya Sekino <ryoyasekino1993@gmail.com>
Ryuji Iwata <qt.luigi@gmail.com>
Ryuma Yoshida <ryuma.y1117@gmail.com>
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>
S.alar Onur <caglar@10ur.org>
Sabin Mihai Rapan <sabin.rapan@gmail.com>
Sad Pencil <qhd6@qq.com>
Sai Cheemalapati <saicheems@gmail.com>
Sai Kiran Dasika <kirandasika30@gmail.com>
Sakeven Jiang <jc5930@sina.cn>
Salaheddin M. Mahmud <salamahmud@gmail.com>
Salman Aljammz <s@0x65.net>
Sam Arnold <samold64@bloomberg.net>
Sam Boyer <tech@samboyer.org>
Sam Chen <chenxsan@gmail.com>
Sam Cross <samgcdev@gmail.com>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@gmail.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sam Xie <xsambundy@gmail.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic@google.com>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simo Gomes Viana <simogmv@gmail.com>
Simarpreet Singh <simar@linux.com>
Simon Drake <simondrake1990@gmail.com>
Simon Ferquel <simon.ferquel@docker.com>
Simon Frei <freisim93@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Rozman <simon@rozman.si>
Simon Ser <contact@emersion.fr>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Song Lim <songlim327@gmail.com>
Songjiayang <songjiayang1@gmail.com>
Songlin Jiang <hollowman@hollowman.ml>
Soojin Nam <jsunam@gmail.com>
Sren L. Hansen <soren@linux2go.dk>
Sparrow Li <liyuancylx@gmail.com>
Spencer Kocot <spencerkocot@gmail.com>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@gmail.com>
Spenser Black <spenserblack01@gmail.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <petrovic@gmail.com>
Sridhar Venkatakrishnan <sridhar@ladoo.net>
Srinidhi Kaushik <shriniidhi.kaushik@gmail.com>
StalkR <stalkr@stalkr.net>
Stan Hu <stanhu@gmail.com>
Stan Schwertly <stan@s-chwertly.com>
Stanislaw Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baebler <sbaebler@outbrain.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabalim <neverliberty@gmail.com>
Stephan Klatt <stephan.klatt@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stephan Zuercher <zuercher@gmail.com>
Stephane Travostino <stephane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen Ma <stephennm@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
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1.724 jackson 1.5.1
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// For more information: http://goo.gl/8us55a#licenseObject
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  Name string `json:"name,omitempty"`
  URL  string `json:"url,omitempty"
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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccooleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dshultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
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Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

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Go support for Protocol Buffers - Google's data interchange format

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1.727 ruby-minitest 5.10.3-1

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

= minitest/{test,spec,mock,benchmark}

home :: https://github.com/seattlerb/minitest
bugs :: https://github.com/seattlerb/minitest/issues
rdoc :: http://docs.seattlerb.org/minitest
vim :: https://github.com/sunaku/vim-ruby-minitest
emacs:: https://github.com/arthurnn/minitest-emacs

== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting
TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were
allowed to choose our testing frameworks. Kirk Haines and I were
paired up and we cracked open the code for a few test
frameworks...

I MUST say that minitest is *very* readable / understandable
compared to the 'other two' options we looked at. Nicely done and
thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework.
It provides a rich set of assertions to make your tests clean and
readable.
minitest/spec is a functionally complete spec engine. It hooks onto minitest/test and seamlessly bridges test assertions over to spec expectations.

minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply.

== FEATURES/PROBLEMS:

* minitest/autorun - the easy and explicit way to run all your tests.
* minitest/test - a very fast, simple, and clean test system.
* minitest/spec - a very fast, simple, and clean spec system.
* minitest/mock - a simple and clean mock stub system.
* minitest/benchmark - an awesome way to assert your algorithm's performance.
* minitest/pride - show your pride in testing!
* Incredibly small and fast runner, but no bells and whistles.
* Written by squishy human beings. Software can never be perfect. We will all eventually die.
== RATIONALE:

See design_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

class Meme
def i_can_has_cheezburger?
  "OHAI!"
end
def will_it_blend?
  "YES!"
end
end

=== Unit tests

Define your tests as methods beginning with +test_+.

require "minitest/autorun"

class TestMeme < Minitest::Test
def setup
  @meme = Meme.new
end
def test_that_kitty_can_eat
  assert_equal "OHAI!", @meme.i_can_has_cheezburger?
end
def test_that_it_will_not_blend
  refute_match /^no/i, @meme.will_it_blend?
end
def test_that_will_be_skipped
  skip "test this later"
end
end

=== Specs

require "minitest/autorun"

describe Meme do
  before do
    # code here
  end
end
@meme = Meme.new
end

describe "when asked about cheeseburgers" do
  it "must respond positively" do
    @meme.i_can_has_cheezburger?.must_equal "OHAI!"
  end
end

describe "when asked about blending possibilities" do
  it "won't say no" do
    @meme.will_it_blend?.wont_match /^no/i
  end
end
end

For matchers support check out:

* https://github.com/wojtekmach/minitest-matchers
* https://github.com/rmm5t/minitest-matchers_vaccine

=== Benchmarks

Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV['BENCH']

class TestMeme < Minitest::Benchmark
  # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
  def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
      @obj.my_algorithm(n)
    end
  end
end

Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match <tt>/Bench(mark)?$/</tt>.

describe "Meme Benchmark" do
  if ENV['BENCH'] then
    bench_performance_linear "my_algorithm", 0.9999 do |n|
      100.times do
        @obj.my_algorithm(n)
      end
  end
end
outputs something like:

```ruby
# Running benchmarks:

TestBlah 100100010000
bench_my_algorithm 0.006167 0.079279 0.786993
bench_other_algorithm 0.061679 0.792797 7.869932

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at
http://www.martinfowler.com/bliki/TestDouble.html:

"Mocks are pre-programmed with expectations which form a specification
of the calls they are expected to receive. They can throw an exception
if they receive a call they don't expect and are checked during
verification to ensure they got all the calls they were expecting."

class MemeAsker
  def initialize(meme)
    @meme = meme
  end

  def ask(question)
    method = question.tr(" ", ".") + "?
    @meme.__send__(method)
  end
end

require "minitest/autorun"

describe MemeAsker, :ask do
  describe "when passed an unpunctuated question" do
    it "should invoke the appropriate predicate method on the meme" do
      @meme = Minitest::Mock.new
      @meme_asker = MemeAsker.new @meme
      @meme.expect :will_it_blend?, :return_value

      @meme_asker.ask "will it blend"

      @meme.verify
    end
  end
end
```
**Multi-threading and Mocks**

Minitest mocks do not support multi-threading if it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

```ruby
def test_called_inside_thread
called = false
pr = Proc.new { called = true }
thread = Thread.new(&pr)
thread.join
assert called, "proc not called"
end
```

=== Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at [http://www.martinfowler.com/bliki/TestDouble.html](http://www.martinfowler.com/bliki/TestDouble.html):

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of the block.

```ruby
def test_stale_eh
obj_under_test = Something.new
refute obj_under_test.stale?

Time.stub :now, Time.at(0) do  # stub goes away once the block is done
  assert obj_under_test.stale?
end
end
```

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

```ruby
def obj_under_test.fake_method
  ...
end
```

=== Running Your Tests

Ideally, you'll use a rake task to run your tests, either piecemeal or
all at once. Both rake and rails ship with rake tasks for running your
tests. BUT! You don’t have to:

% ruby -Ilib:test test/minitest/test_minitest_test.rb
Run options: --seed 37685

# Running:

................................................................. (etc)

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips

There are runtime options available, both from minitest itself, and also
provided via plugins. To see them, simply run with +--help+:

% ruby -Ilib:test test/minitest/test_minitest_test.rb --help

minitest options:
  -h, --help                          Display this help.
  -s, --seed SEED                      Sets random seed. Also via env. Eg: SEED=n rake
  -v, --verbose                       Verbose. Show progress processing files.
  -n, --name PATTERN                  Filter run on /regexp/ or string.
  -e, --exclude PATTERN               Exclude /regexp/ or string from run.

Known extensions: pride, autotest
  -p, --pride                         Pride. Show your testing pride!
  -a, --autotest                      Connect to autotest server.

== Writing Extensions

To define a plugin, add a file named minitest/XXX_plugin.rb to your
project/gem. That file must be discoverable via ruby’s LOAD_PATH (via
rubygems or otherwise). Minitest will find and require that file using
Gem.find_files. It will then try to call +plugin_XXX_init+ during
startup. The option processor will also try to call +plugin_XXX_options+
passing the OptionParser instance and the current options hash. This
lets you register your own command-line options. Here's a totally
bogus example:

# minitest/bogus_plugin.rb:

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
      options[:myci_addr] = get_myci_addr
      options[:myci_port] = get_myci_port
  end
end

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
      options[:myci_addr] = get_myci_addr
      options[:myci_port] = get_myci_port
  end
end
end
end

def self.plugin_bogus_init(options)
    self.reporter << MyCI.new(options) if options[:myci]
end
end

=== Adding custom reporters

Minitest uses composite reporter to output test results using multiple reporter instances. You can add new reporters to the composite during the init_plugins phase. As we saw in +plugin_bogus_init+ above, you simply add your reporter instance to the composite via <tt<<<</tt>.

+AbstractReporter+ defines the API for reporters. You may subclass it and override any method you want to achieve your desired behavior.

start  :: Called when the run has started.
record :: Called for each result, passed or otherwise.
report :: Called at the end of the run.
passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

# minitest/bogus_plugin.rb

module Minitest
    class MyCI < AbstractReporter
        attr_accessor :results, :addr, :port

        def initialize options
            self.results = []
            self.addr = options[:myci_addr]
            self.port = options[:myci_port]
        end

        def record result
            self.results << result
        end

        def report
            CI.connect(addr, port).send_results self.results
        end

        # code from above...
    end
end
== FAQ

=== How to test SimpleDelegates?

The following implementation and test:

class Worker < SimpleDelegator
def work
end
end

describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do
    @worker.must_respond_to :work
  end
end

outputs a failure:

  1) Failure:
     Worker#test_0001_must respond to work [bug11.rb:16]:
     Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject.
Expectations are put on Object (one level down) so the Worker
(SimpleDelegate) hits +method_missing+ and delegates down to the
+Object.new+ instance. That object doesn't respond to work so the test
fails.

You can bypass <tt>SimpleDelegate#method_missing</tt> by extending the worker
with <tt>Minitest::Expectations</tt>. You can either do that in your setup at
the instance level, like:

  before do
    @worker = Worker.new(Object.new)
    @worker.extend Minitest::Expectations
  end

or you can extend the Worker class (within the test file!), like:

class Worker
  include ::Minitest::Expectations
end
=== How to share code across test classes?

Use a module. That's exactly what they're for:

```ruby
module UsefulStuff
  def useful_method
    # ...
  end
end

describe Blah do
  include UsefulStuff
  def test_whatever
    # useful_method available here
  end
end
```

Remember, `describe` simply creates test classes. It's just ruby at the end of the day and all your normal Good Ruby Rules (tm) apply. If you want to extend your test using setup/teardown via a module, just make sure you ALWAYS call super. before/after automatically call super for you, so make sure you don't do it twice.

=== Why am I seeing `<tt>uninitialized constant MiniTest::Test (NameError)</tt>`?

Are you running the test with Bundler (e.g. via `<tt>bundle exec</tt>`)? If so, in order to require minitest, you must first add the `<tt>gem 'minitest'</tt>` to your Gemfile and run `+bundle+`. Once it's installed, you should be able to require minitest and run your tests.

== Prominent Projects using Minitest:

* arel
* journey
* mime-types
* nokogiri
* rails (active_support et al)
* rake
* rdoc
* ...and of course, everything from seattle.rb...

== Developing Minitest:

=== Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is
often CP850, but can affect any platform.
Minitest can run test suites using any Encoding, but to run Minitest's
own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

```ruby
--- expected
+++ actual
@@ -1,2 +1,3 @@
 # encoding: UTF-8
-"Expected /\w+/ to not match "blah blah blah\"."
+"Expected /\w+/ to not match # encoding: UTF-8
+\"blah blah blah\"."
```

To check your current encoding, run:

```
ruby -e 'puts Encoding.default_external'
```

If your output is something other than UTF-8, you can set the RUBYOPTS
env variable to a value of `-Eutf-8'. Something like:

```
RUBYOPT='-Eutf-8' ruby -e 'puts Encoding.default_external'
```

Check your OS/shell documentation for the precise syntax (the above
will not work on a basic Windows CMD prompt, look for the SET command).
Once you've got it successfully outputing UTF-8, use the same setting
when running rake in Minitest.

```ruby
=== Minitest's own tests require GNU (or similar) diff.

This is also a problem primarily affecting Windows developers. PowerShell
has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:

4) Failure:

```
TestMinitestUnitTestCase#test_assert_equal_different_long
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:936]:
  Expected: "--- expected
                             actual
-\"hahahahahahahahahahahahahahahahahahahaha\n+\"blahblahblahblahblahblahblahblahblahblah\n"
  Actual: "Expected: \"hahahahahahahahahahahahahahahahahahahaha\n Actual:
\"blahblahblahblahblahblahblahblahblahblah\"
```

5) Failure:

```
TestMinitestUnitTestCase#test_assert_equal_different_collection_hash_hex_invisible
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:845]:
  Expected: "No visible difference in the Hash#inspect output.\nYou should look at the implementation of #== on
```
Hash or its members:

```
{1=>#<Object:0xXXXXXXX>}
```

Actual: "Expected: {1=>#<Object:0x0000003ba0470>}
  Actual: {1=>#<Object:0x0000003ba0448>}"  

If you use Cygwin or MSYS2 or similar there are packages that include a GNU diff for Windows. If you don’t, you can download GNU diffutils from
http://gnuwin32.sourceforge.net/packages/diffutils.htm
(make sure to add it to your PATH).

You can make sure it’s installed and path is configured properly with:

```
diff.exe -v
```

There are multiple lines of output, the first should be something like:

```
diff (GNU diffutils) 2.8.1
```

If you are using PowerShell make sure you run diff.exe, not just diff,
which will invoke the PowerShell built in function.

== Known Extensions:

capybara_minitest_spec :: Bridge between Capybara RSpec matchers and
  Minitest::Spec expectations (e.g.
  `<tt>page.must_have_content("Title")</tt>`).
color_pound_spec_reporter :: Test names print Ruby Object types in color with
  your Minitest Spec style tests.
minispec-metadata :: Metadata for describe/it blocks & CLI tag filter.
  E.g. `<tt>it "requires JS driver", js: true do</tt> &
  `<tt>ruby test.rb --tag js</tt>` runs tests tagged :js.
minispec-rails :: Minimal support to use Spec style in Rails 5+.
minitest-around :: Around block for minitest. An alternative to
  setup/teardown dance.
minitest-assert_errors :: Adds Minitest assertions to test for errors raised
  or not raised by Minitest itself.
minitest-autotest :: autotest is a continuous testing facility meant to
  be used during development.
minitest-bacon :: minitest-bacon extends minitest with bacon-like
  functionality.
minitest-bang :: Adds support for RSpec-style let! to immediately
  invoke let statements before each test.
minitest-bisect :: Helps you isolate and debug random test failures.
minitest-blink1_reporter :: Display test results with a Blink1.
minitest-capistrano :: Assertions and expectations for testing
  Capistrano recipes.
minitest-capybara :: Capybara matchers support for minitest unit and
  spec.
minitest-chef-handler :: Run Minitest suites as Chef report handlers
minitest-ci :: CI reporter plugin for Minitest.
minitest-context :: Defines contexts for code reuse in Minitest specs that share common expectations.
minitest-debugger :: Wraps assert so failed assertions drop into the ruby debugger.
minitest-display :: Patches Minitest to allow for an easily configurable output.
minitest-documentation :: Minimal documentation format inspired by rspec's.
minitest-doc_reporter :: Detailed output inspired by rspec's documentation format.
minitest-emoji :: Print out emoji for your test passes, fails, and skips.
minitest-english :: Semantically symmetric aliases for assertions and expectations.
minitest-excludes :: Clean API for excluding certain tests you don't want to run under certain conditions.
minitest-fail-fast :: Reimplements RSpec's "fail fast" feature
minitest-filecontent :: Support unit tests with expectation results in files. Differing results will be stored again in files.
minitest-filesystem :: Adds assertion and expectation to help testing filesystem contents.
minitest-firemock :: Makes your Minitest mocks more resilient.
minitest-focus :: Focus on one test at a time.
minitest-gcstats :: A minitest plugin that adds a report of the top tests by number of objects allocated.
minitest-great_expectations :: Generally useful additions to minitest's assertions and expectations.
minitest-growl :: Test notifier for minitest via growl.
minitest-happy :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!
minitest-have_tag :: Adds Minitest assertions to test for the existence of HTML tags, including contents, within a provided string.
minitest-hooks :: Around and before_all/after_all/around_all hooks
minitest-hyper :: Pretty, single-page HTML reports for your Minitest runs
minitest-implicit-subject :: Implicit declaration of the test subject.
minitest-instrument :: Instrument ActiveSupport::Notifications when test method is executed.
minitest-instrument-db :: Store information about speed of test execution provided by minitest-instrument in database.
minitest-junit :: JUnit-style XML reporter for minitest.
minitest-libnotify :: Test notifier for minitest via libnotify.
minitest-line :: Run test at line number.
minitest-logger :: Define assert_log and enable minitest to test log messages. Supports Logger and Log4r::Logger.
minitest-macruby :: Provides extensions to minitest for macruby UI testing.
minitest-matchers :: Adds support for RSpec-style matchers to minitest.
minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec, but without any expectation infections.
minitest-metadata :: Annotate tests with metadata (key-value).
minitest-mongoid :: Mongoid assertion matchers for Minitest.
minitest-must_not :: Provides must_not as an alias for wont in Minitest.
minitest-optional_retry :: Automatically retry failed test to help with flakiness.
minitest-osx :: Reporter for the Mac OS X notification center.
minitest-parallel_fork :: Fork-based parallelization
minitest-parallel-db :: Run tests in parallel with a single database.
minitest-power_assert :: PowerAssert for Minitest.
minitest-predicates :: Adds support for .predicate? methods.
minitest-profile :: List the 10 slowest tests in your suite.
minitest-rails :: Minitest integration for Rails 3.x.
minitest-rails-capybara :: Capybara integration for Minitest::Rails.
minitest-reporters :: Create customizable Minitest output formats.
minitest-rg :: Colored red/green output for Minitest.
minitest-rspec_mocks :: Use RSpecMocks with Minitest.
minitest-server :: minitest-server provides a client/server setup with your minitest process, allowing your test run to send its results directly to a handler.
minitest-sequel :: Minitest assertions to speed-up development and testing of Ruby Sequel database setups.
minitest-shared_description :: Support for shared specs and shared spec subclasses
minitest-should_syntax :: RSpec-style <tt>x.should == y</tt> assertions for Minitest.
minitest-shouldify :: Adding all manner of shoulds to Minitest (bad idea)
minitest-snail :: Print a list of tests that take too long
minitest-spec-context :: Provides rspec-ish context method to Minitest::Spec.
minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g. expect(sequences).to_include :celery_man).
minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.
minitest-spec-rails :: Drop in Minitest::Spec superclass for ActiveSupport::TestCase.
minitest-sprint :: Runs (Get it? It's fast!) your tests and makes it easier to rerun individual failures.
minitest-stately :: Find leaking state between tests
minitest-stub_any_instance :: Stub any instance of a method on the given class for the duration of a block.
minitest-stub-const :: Stub constants for the duration of a block.
minitest-tags :: Add tags for minitest.
minitest-unordered :: Adds a new assertion to minitest for checking the contents of a collection, ignoring element order.
minitest-vcr :: Automatic cassette management with Minitest::Spec and VCR.
minitest_owrapper  :: Get tests results as a TestResult object.
minitest_should   :: Shoulda style syntax for minitest test::unit.
minitest_tu_shim  :: Bridges between test/unit and minitest.
mongoid-minitest  :: Minitest matchers for Mongoid.
pry-rescue        :: A pry plugin w/ minitest support. See
                    pry-rescue/minitest.rb.
rspec2minitest    :: Easily translate any RSpec matchers to Minitest
                    assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

* assay-minitest
* detroit-minitest
* em-minitest-spec
* flexmock-minitest
* guard-minitest
* guard-minitest-decisiv
* minitest-activemodel
* minitest-ar-assertions
* minitest-capybara-unit
* minitest-colorer
* minitest-deluxe
* minitest-extra-assertions
* minitest-rails-shoulda
* minitest-spec
* minitest-spec-should
* minitest-sugar
* spork-minitest

== Minitest related goods


== REQUIREMENTS:

* Ruby 1.8.7+. No magic is involved. I hope.
* NOTE: 1.8 and 1.9 will be dropped in minitest 6+.

== INSTALL:

sudo gem install minitest

On 1.9, you already have it. To get newer candy you can still install
the gem, and then requiring "minitest/autorun" should automatically
pull it in. If not, you'll need to do it yourself:
gem "minitest"  # ensures you"re using the gem, and not the built-in MT
require "minitest/autorun"

# ... usual testing stuffs ...

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0
packages their own gems. They install a gem specification file, but
don't install the gem contents in the gem path. This messes up
Gem.find_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

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Found in path(s):
* /opt/cola/permits/1176326078_1624685507.32/0/ruby-minitest-5-10-3-orig-1-tar-gz/minitest-5.10.3/README.rdoc
No license file was found, but licenses were detected in source scan.

# more details.

Found in path(s):
* /opt/cola/permits/1176326078_1624685507.32/0/ruby-minitest-5-10-3-orig-1-tar-gz/minitest-5.10.3/lib/minitest/benchmark.rb
1.728 golang-org-x-time v0.0.0-20210220033141-f8bda1e9f3ba

1.728.1 Available under license:

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Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolf@gmail.com>
Andrew Hunter <andrewhhunter@gmail.com>

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# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexdr.ch>
Alexander F Rdseth <alexander.rodseth@appeartv.com>
Alexander Greim <alexxx@iltempo.de>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Klauer <Alexander.Klauer@googlemail.com>
Alexander Kucherenko <alkxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Louier <aml@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Nohe <alex.nohe427@gmail.com>
Alexander Orlov <alexander.orlov@loxlal.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@google.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandreiaux.net>
Alexandru Mooi <brtzsnr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalexand@google.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Naidonov <alexy.naidonov@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexey Semenyuk <alexsemenyuk88@gmail.com>
Alexey Vilenskiy <bynovhack@gmail.com>
Alexis Hildebrandt <surryhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@google.com>
Ali Farooq <ali.farooq0@pm.me>
Ali Rizvi-Santiago <arizvisa@gmail.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alice Merrick <amerrick@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Allan Guwatudde <guwats10@gmail.com>
Open Source Used In SMI 2021.01.0-Jan-2022  10789

Benoit Sigoure <tsunanet@gmail.com>
Berengar Lehr <Berengar.Lehr@gmx.de>
Berkant Ipek <41230766+0xbkt@users.noreply.github.com>
Bharath Kumar Uppala <uppala.bharath@gmail.com>
Bharath Thiruveedula <bharath91@gmail.com>
Bhavin Gandhi <bhavin7392@gmail.com>
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>
Bill O'Farrell <bilo@ca.ibm.com>
Bill Prin <waprin@google.com>
Bill Thiede <couchmoney@gmail.com>
Bill Zissimopoulos <billziss@navimatics.com>
Billie Harold Cleek <bhcleek@gmail.com>
Billy Lynch <wlynch@gmail.com>
Billy Zaelani Malik <m.billyzaelani@gmail.com>
Bjrn Erik Pedersen <bjorn.erik.pedersen@gmail.com>
Bjorn Tillenius <bjorn@tillenius.me>
Bjorn Tipling <bjorn.tipling@gmail.com>
Blain Smith <rebelgeek@blainsmith.com>
Blake Gentry <blakesgentry@gmail.com>
Blake Mesdag <blakemesdag@gmail.com>
Blake Mizerany <blake.mizerany@gmail.com>
Blixt <me@blixt.nyc>
Bob Briski <bbriski@gmail.com>
Bob McNaughton <bobmcn@gmail.com>
Bob Potter <bobby.potter@gmail.com>
Bobby DeSimone <bobbydesimone@gmail.com>
Bobby Powers <bobbypowers@gmail.com>
Boqin Qin <boqinqin@gmail.com>
Boris Nagaev <nagaev@google.com>
Borja Clemente <borja.clemente@gmail.com>
Boshi Lian <bolian@microsoft.com>
Brad Burch <brad.burch@gmail.com>
Brad Erickson <bderickson@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <rbjones@google.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Bradford Lamson-Scribner <brad.lamson@gmail.com>
Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@sull.com>
Branden J. Brown <zephyrtronium@gmail.com>
Brandon Bennett <bbennett@fb.com>
Brandon Gilmore <varz@google.com>
Brandon Philips <brandon@ifup.org>
Brandon Ryan <bjryan19@gmail.com>
Fedor Korotkiy <dartslon@gmail.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Buemann <Felix.Buenemann@gmail.com>
Felix Cornelius <9767036+fcornelius@users.noreply.github.com>
Felix Geisendrfer <haimuiba@gmail.com>
Felix Kollmann <fk@konsorten.de>
Ferenc Szabo <frncmx@gmail.com>
Fernandez Ludovic <lfernandez.dev@gmail.com>
Filip Gruszczynski <gruszczyn@gmail.com>
Filip Haglund <drathier@users.noreply.github.com>
Filip Stanis <fstanis@google.com>
Filippo Valsorda <filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Forster <octo@octo.com>
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francesco Guardiani <franciscoguardian@gmail.com>
Francesco Renzi <rentziass@gmail.com>
Francisco Claude <fclauade@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscosouza@gmail.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <fomers@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Frederik Zipp <fzipp@gmx.de>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.fosmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>
Frits van Bommel <fvbommel@gmail.com>
Fujimoto Kyosuke <skyoro.f@gmail.com>
Fumitoshi Ukai <ukai@google.com>
G. Hussain Chino <ghchino@gmail.com>
Gaal Yahas <gaal@google.com>
Gabriel Arth Arthr Pursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Guzman <gabe.guzman@gmail.com>
Gabriel Nelle <tehsphinx@web.de>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Rosenhouse <rosenhouse@gmail.com>
Gabriel Russell <gabriel.russell@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@google.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Asquino <martin.asquino@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrman <mehhrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <anty.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Masaya Watanabe <sfbgwm30@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulys <mgulyas86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateusz Amin <mateusz.amin@gmail.com>
Mateusz Czapinski <czapkofan@gmail.com>
Matheus Alcantara <matheussilv97@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <mne@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@gmail.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Masurka <masurka@google.com>
Matt Pearring <broskies@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <ndempsky@gmail.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matt.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthias Frei <mathias.frei@inf.ethz.ch>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Mattias Appelgren <mattias@ppelgren.se>
Mauricio Alvarado <mauricio.alvarado@leftfieldlabs.com>
Max Drosdo.www <g1ran1q@gmail.com>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenik <maxsem.wiki@gmail.com>
Max Ushakov <ushmax@gmail.com>
Maxim Eryomenko <moeryomenko@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@gmail.com>
Maxim Pugachev <pugachev.mm@gmail.com>
Maxim Ushakov <ushakov@gmail.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Cotton <scott@mindowl.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Ragan <ragansa@fb.com>
Scott Schwartz <scott@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@google.com>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <seanc@joyent.com>
Sean Christopherson <sean.j Christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Harrington <sean.harrington@leftfieldlabs.com>
Sean Hildebrand <seanwhildebrand@gmail.com>
Sean Liao <seankhliao@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Chlopecki <sebsebmce@gmail.com>
Sebastian Kinne <skinne@google.com>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Lemeshkin <sergeilem@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergei Zagurskii <gvozdoder@gmail.com>
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synesis.ru>
Sergey Frolov <sfrolov@gmail.com>
Sergey Glushchenko <gs sergey@gmail.com>
Sergey Ivanov <ser1325@gmail.com>
Sergey Kacheev <S.Kacheev@gmail.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhat Giydiren <serhatgiydiren@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Trong Bui <trong.buiquoc@gmail.com>
Trung Nguyen <trung.n.k@gmail.com>
Tsuji Daishiro <dram.dt.shonan@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuo@gmail.com>
Tyler Bui-Palsulich <tpalsulich@gmail.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tyson Andre <tysonandre775@gmail.com>
Tzach Shabtay <tzachshabtay@gmail.com>
Tzu-Chiao Yeh <su3g4284z06y7@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Udalov Max <re.udalov@gmail.com>
Uddeshya Singh <singhuddeshyaoofficial@gmail.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangiparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Utkarsh Dixit <53217283+utkarsh-extc@users.noreply.github.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Valentin Vidic <vvidic@valentin-vidic.from.hr>
Vaughn Iverson <vsvsiv@yahoo.com>
Vee Zhang <veezhang@126.com> <vveezhang@gmail.com>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturaev <vearutop@gmail.com>
Victor Chudnovsky <vchudnov@google.com>
Victor Michel <victor@optimize.cloud>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@google.com>
Ville Skytt <ville.skytta@iki.fi>
Vincent Ambo <tazjin@iki.fi>
Vincent Batt <vbattehashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vino Rajasheshkar <vinutheraj@gmail.com>
Vish Subramanian <vish@gmail.com>
Vishal Dalwadi <dalwadivishal26@gmail.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara R <r.visweswara@gmail.com>
Vitaly Zdanevich <zdanevich.vitaly@ya.ru>
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    compute_service.py
    v2/
        server.py
        _proxy.py
tests/
    compute/
    v2/
        test_server.py

clouds:
test_cloud:
    region_name: RegionOne
    auth:
        auth_url: http://xxx.xxx.xxx.xxx:5000/v2.0/
        username: demo
        password: secrete
        project_name: demo

rackspace:
    cloud: rackspace
    auth:
        username: joe
        password: joes-password
        project_name: 123123
        region_name: IAD

example:
    image_name: fedora-20.x86_64
    flavor_name: m1.small
    network_name: private

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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@version 3.0 (December 2000)

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

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

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1.745 hashicorp-serf 0.8.3

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1.750 kubernetes-component-base 0.18.0

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Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Nick Craig-Wood <nickcw@gmail.com>
Scott Van Woudenberg <scottvw@google.com>
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============
<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Samuel A. Falvo II</td>
<td><a href="mailto:sam.falvo@rackspace.com">sam.falvo@rackspace.com</a></td>
</tr>
<tr>
<td>Glen Campbell</td>
<td><a href="mailto:glen.campbell@rackspace.com">glen.campbell@rackspace.com</a></td>
</tr>
<tr>
<td>Jesse Noller</td>
<td><a href="mailto:jesse.noller@rackspace.com">jesse.noller@rackspace.com</a></td>
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<td><a href="mailto:jamie.hannaford@rackspace.com">jamie.hannaford@rackspace.com</a></td>
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<tr>
<td>Don Schenck</td>
<td><a href="mailto:don.schenck@rackspace.com">don.schenck@rackspace.com</a>&gt;</td>
</tr>
<tr>
<td>Joe Topjian</td>
<td><a href="mailto:joe@topjian.net">joe@topjian.net</a></td>
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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[
            {"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}
        ]`)
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{License{
        Key: String("mit"),
        Name: String("MIT"),
        URL:  String("https://api.github.com/licenses/mit"),
    }}
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()
mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprintf(w, `{"key":"mit","name":"MIT"}
    })

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
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package github

import "fmt"

// LicensesService handles communication with the license related methods of the GitHub API.

type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key *string `json:"key",omitempty`
    Name *string `json:"name",omitempty`
    URL  *string `json:"url",omitempty`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty`
    Description    *string   `json:"description",omitempty`
    Category       *string   `json:"category",omitempty`
    Implementation *string   `json:"implementation",omitempty`
    Required       *[]string `json:"required",omitempty`
    Permitted      *[]string `json:"permitted",omitempty`
}
func (l License) String() string { return Stringify(l) }

// List popular open source licenses.
// // GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([][]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    licenses := new([][]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }

    return *licenses, resp, err
}

// Fetch extended metadata for one license.
// // GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }
return license, resp, err
}

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1.751 x-text 0.3.2

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1.753 kubernetes-apimachinery 0.18.0

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Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
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Garrick Evans <garrick@google.com>
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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[
            {"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}
        ]`)
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{License{
        Key:  String("mit"),
        Name: String("MIT"),
        URL:  String("https://api.github.com/licenses/mit"),
    }}
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
    })
func TestLicensesService_Get(t *testing.T) {
    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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keys provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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| import: ../../../../fossene/db/schema/thing.yml |
| fields: |
|   site: string |

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
type LicensesService struct {
  client *Client
}

// License represents an open source license.
type License struct {
  Key    *string `json:"key",omitempty`
  Name   *string `json:"name",omitempty`
  URL    *string `json:"html_url",omitempty`
  HTMLURL *string `json:"html_url",omitempty`
  Featured *bool  `json:"featured",omitempty`
  Description *string `json:"description",omitempty`
  Category *string `json:"category",omitempty`
  Implementation *string `json:"implementation",omitempty`
  Required  *[]string `json:"required",omitempty`
  Permitted *[]string `json:"permitted",omitempty`
  Forbidden *[]string `json:"forbidden",omitempty`
  Body      *string `json:"body",omitempty`
}
func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
    return nil, resp, err
}
return *licenses, resp, err

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

license := new(License)
resp, err := s.client.Do(req, license)
if err != nil {
    return nil, resp, err
}
return license, resp, err
}
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1.754 ansible-lint 4.2.0

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1.755 import-lazy 2.1.0

1.755.1 Available under license :

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1.756 aws-sdk-go-v2 1.0.6

1.756.1 Available under license:
   // Code generated by smithy-go-codegen DO NOT EDIT.

   package licensemanager

   import {
     "context"
     awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
     "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
     "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
     "github.com/aws/smithy-go/middleware"
     smithyhttp "github.com/aws smithy-go/transport/http"
   }

   // Deletes the specified license.
   func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
     if params == nil {
       params = &DeleteLicenseInput{
     }

     result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
     if err != nil {
       return nil, err
     }

     out := result.(*DeleteLicenseOutput)
     out.ResultMetadata = metadata
     return out, nil
   }

   type DeleteLicenseInput struct {

     // Amazon Resource Name (ARN) of the license.
     //
     // This member is required.
     LicenseArn *string

     // Current version of the license.
     //
// This member is required.
SourceVersion *string
}

type DeleteLicenseOutput struct {

    // Date on which the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
        addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // * ProductSKU
    //
    // * Status
    //
    // * KeyFingerprint
    //
    // * Issuer
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string
type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}
return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}
// Defines a license function.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{};
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
    addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err;
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

// CreateLicenseInput

// License beneficiary.
// // This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
// // This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
// // This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
// // This member is required.
Enteritlements []types.Entitlement

// Home Region for the license.
// // This member is required.
HomeRegion *string
// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

} type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {

return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}

if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}

if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}

return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
        addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.\nNodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {  
if params == nil {  
params = &CheckoutBorrowLicenseInput{}  
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {  
return nil, err  
}
```go
out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string
}

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string
```
// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.\nNodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = aws middleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSInerV4Middleware(stack, options); err != nil {
        return err
    }
}
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
import {
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
  if params == nil {
    params = &ListLicensesInput{}
  }

  result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, 
  addOperationListLicensesMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*ListLicensesOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type ListLicensesInput struct {

  // Filters to scope the results. The following filters are supported:
  //
  // *
  // Beneficiary
  //
  // * ProductSKU
  //
  // * KeyFingerprint
  //
  // * Status
  Filters []types.Filter

  // Amazon Resource Names (ARNs) of the licenses.
  LicenseArns []string

  // Maximum number of results to return in a single call.
  MaxResults *int32
type ListLicensesOutput struct {
    // License details.
    Licenses []types.License
    // Token for the next set of results.
    NextToken *string
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}

if err = addClientUserAgent(stack); err != nil {
    return err
}

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}

if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}

if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}

return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

    if err != nil {
        return err
    }
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSInnerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {
    // License consumption token.
}
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorResponseCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata{
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckInLicense",
    }
}

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1.757 irb 1.0.0

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1.758 javax-ws-rs-api 2.0.1

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1.760 gax-go 2.0.5

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1.761 pyasn1-modules 0.2.8
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1.762 prometheus-procfs 0.0.8

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.765 stringio 0.0.1

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stringio.c -

$Author$
$RoughId: stringio.c,v 1.13 2002/03/14 03:24:18 nobu Exp$
created at: Tue Feb 19 04:10:38 JST 2002

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/**********************************************************************/

Found in path(s):
*/opt/cola/permits/1112082522_1607034672.43/0/stringio-0-0-1-1-gem/data-tar-gz/stringio.c

1.766 github.com/masterminds/sprig/v3 3.1.0

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Anton Tolchanov (knyar)
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1.772 console 1.12.0

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so
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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.

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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.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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
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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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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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.783 go-difflib 1.0.0

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1.787 indent-string 4.0.0

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1.788 gnutls 3.5.18-1ubuntu1.5

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1.795 minipass-pipeline 1.2.4

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1.796 go-systemd v22.3.2

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1.801 configparser 4.0.2
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Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

```c
int display_legal(pam_handle_t *pamh)
{
    int retval = PAM_IGNORE, rc;
    char *user = NULL;
    char *dir = NULL;
    char *flag = NULL;
    struct passwd *pwd = NULL;
    struct stat s;
    int f;
    /* Get the user name to determine if we need to print the disclaimer */
    rc = pam_get_item(pamh, PAM_USER, &user);
    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
    {
        PAM_MODUTIL_DEF_PRIVS(privs);
        /* Get the password entry */
        pwd = pam_modutil_getpwnam (pamh, user);
        if (pwd != NULL)
        {
            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
                pam_syslog(pamh, LOG_ERR,
                           "Unable to change UID to %d temporarily\n",
                           pwd->pw_uid);
            }
```
+    retval = PAM_SESSION_ERR;
+    goto finished;
+  }
+
+  if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+    goto finished;
+  if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+    goto finished;
+
+  if (stat(flag, &s) != 0)
+  {
+    display_file(pamh, "\"/etc/legal\"");
+    mkdir(dir, 0700);
+    f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+             S_IRUSR|S_IWUSR|S_IXGRP|S_IROTH);
+    if (f>=0) close(f);
+  }
+
+  finished:
+  if (pam_modutil_regain_priv(pamh, &privs)) {
+    pam_syslog(pamh, LOG_ERR,
+               "Unable to change UID back to %d\n", privs.old_uid);
+    retval = PAM_SESSION_ERR;
+  }
+
+  _pam_drop(flag);
+  _pam_drop(dir);
+  return retval;
+}
+
+PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the updated motd */
 display_file(pamh, motd_path);
+
+ /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
+}

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). 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 is a sponsoring member of the PSF.

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```
+----------------+--------------+------------+------------+-----------------+
| Release        | Derived from | Year       | Owner      | GPL compatible? |
+================+==============+============+============+=================+
| 0.9.0 thru 1.2 | n/a          | 1991-1995  | CWI        | yes             |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999  | CNRI       | yes             |
| 1.6             | 1.5.2        | 2000       | CNRI       | no              |
| 2.0             | 1.6+1.6.1    | 2001       | PSF        | yes             |
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Mersenne Twister
-------------

The :mod:`_random` module includes code based on a download from
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/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
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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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--------------------------

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test_epoll
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SipHash24
---------

The file `python/pyhash.c` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. It contains the following note:

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
--------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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

cfuhash
-------

The implementation of the hash table used by the `tracemalloc` is based on the cfuhash project:

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libmpdec
--------

The `decimal` module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`:

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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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Centrum Wiskunde & Informatica
P.O. Box 94079, 1090 GB Amsterdam, Netherlands
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c8d5bb56.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.829 x-net 0.0.0-20210226172049-e18ecbb05110

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 */

/*
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode  The <code>mode</code> argument is either
 * <code>MODE_SYNCHRONOUS</code> or <code>MODEASYNCHRONOUS</code>, if
* `<code>mode</code>` is `<code>MODE_SYNCHRONOUS</code>` then the
* `<code>LSParser</code>` that is created will operate in synchronous
* mode, if it's `<code>MODE_ASYNCHRONOUS</code>` then the
* `<code>LSParser</code>` that is created will operate in asynchronous
* mode.
* <code>@param schemaType</code> An absolute URI representing the type of the schema
* language used during the load of a `<code>Document</code>` using the
* newly created `<code>LSParser</code>`: Note that no lexical checking
* is done on the absolute URI. In order to create a
* `<code>LSParser</code>` for any kind of schema types (i.e. the
* `<code>LSParser</code>` will be free to use any schema found), use the value
* `<code>null</code>`.

* , applications must use the value
* `<code>"http://www.w3.org/2001/XMLSchema"</code> as the `schemaType` in order to use this method.
* For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
* applications must use the value
* `<code>"http://www.w3.org/TR/REC-xml"</code> as the `schemaType`. Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.
* <code>@return</code> The newly created `<code>LSParser</code>` object. This
* `<code>LSParser</code>` is either synchronous or asynchronous
* depending on the value of the `<code>mode</code>` argument.
* <p><b>Note:</b> By default, the newly created `<code>LSParser</code>`
* does not contain a `<code>DOMErrorHandler</code>`, i.e. the value of
* the "error-handler" configuration parameter is `<code>null</code>`.
* However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the "error-handler" configuration
* parameter on the new created `<code>LSParser</code>` contains a
* reference to the default error handler.
* <code>@exception DOMException</code>
* <code>NOT_SUPPORTED_ERR</code>: Raised if the requested mode or schema type is
* not supported.
*/

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  jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dv/xs/AnyAtomicDV.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/traversers/XSAnnotationInfo.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/ExternalSubsetResolver.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/io/MalformedByteSequenceException.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSLoaderImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXMessageFormatter.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/util/ByteListImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredDOMImplementationImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11Configurable.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/JAXPNamespaceContextWrapper.java
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/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
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cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate "Unique Particle Attribution". During validation against this schema, ambiguity would be created for those two particles.

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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/XPathMatcher.java

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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/Augmentations.java
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* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
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* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11Configuration.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/Field.java
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  jar/org/apache/xerces/dom/NodeImpl.java
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  jar/org/apache/xerces/dom/ElementImpl.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSImplementation.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSMultiValueFacet.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamedMap.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSGrammarPool.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/ShortList.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/PSVIProvider.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XSModel.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XSNamespaceItemList.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/ElementPSVI.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/AttributePSVI.java
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* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DTDConfiguration.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeListCache.java
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   jar/org/apache/xerces/dom/AttrImpl.java
 * /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
   jar/org/apache/xerces/impl/xs/XSGroupDecl.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLResourceIdentifierImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/simpleLocator.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/xsDescription.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/FullDVFactory.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xn/ResourceIdentifier.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/UTF8Reader.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SchemaGrammar.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SchemaGrammar.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractSAXParser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/html/dom/ObjectFactory.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDVFactoryImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/QNameDV.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/ObjectFactory.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/traversers/XSDComplexTypeTraverser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/ObjectFactory.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/ObjectFactory.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SecurityConfiguration.java

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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DOMUtil.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ParentNode.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammar.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredDocumentImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NamedNodeMapImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/dtd/XSDPublicIDs.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DVFactoryImpl.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSConstants.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java

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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSObjectListImpl.java

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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/StringListImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSObjectListImpl.java

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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLVersionDetector.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11DocumentScannerImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/RangeImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDValidator.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11DocumentScannerImpl.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/BalancedDTDGrammar.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerPart.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/UnparsedEntityHandler.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DatatypeMessageFormatter.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerErrorHandler.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/ElementSchemePointer.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidatorComponent.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMValidatorHelper.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DTDGrammarPool.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/SchemaContentHandler.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/StreamValidatorHelper.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSQName.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXInputSource.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XPointerParserConfiguration.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerErrorHandler.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLGregorianCalendarImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/BalancedDTDGrammar.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DatatypeMessageFormatter.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMValidatorHelper.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
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* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xpointer/ShortHandPointer.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
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jar/org/apache/xerces/xpointer/XPointerHandler.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/Util.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/SchemaValidatorConfiguration.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/ValidatorHelper.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xpointer/ShortHandPointer.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/ReadOnlyGrammarPool.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/WeakReferenceXMLSchema.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/ValidatorHelper.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/EntityResolver2Wrapper.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLCatalogResolver.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSFloat.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/HTTPInputSource.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDouble.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/ObjectList.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/ByteList.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDurationDV.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDateTime.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11DTDConfiguration.java

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* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/SecuritySupport.java
* /opt/cola/permits/1210466031_163395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/XMLSymbols.java
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* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIEelementNSImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIAttrNSImpl.java

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jar/org/apache/wml/WMLBElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLTrElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLTableElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLTemplateElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLWmlElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLOptionElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLSetvarElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLDOMImplementationImpl.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLSmallElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLNoopElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLTdElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLSelectElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLEmElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLUElement.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLDOMImplementation.java
* /opt/cola/permits/1210466031_1633395592.88/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLAElement.java
*/

jar/org/apache/wml/WMLFieldsetElement.java
*/

Found in path(s):
*/

Found in path(s):
*/

*/

Found in path(s):
*/
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   details.
*/
=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 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
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/1175538967_1624412573.72/0/libhtml-tagset-perl-3-20-orig-1-tar-gz/HTML-Tagset-3.20/Tagset.pm
No license file was found, but licenses were detected in source scan.

license:  ~

Found in path(s):
* /opt/cola/permits/1175538967_1624412573.72/0/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.

README for HTML::Tagset

    HTML::Tagset

This module contains data tables useful in dealing with HTML.

It provides no functions or methods.

=head2 PREREQUISITES

This suite requires Perl 5.

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

=head2 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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1.833 go-uber-org-multierr 1.1.0

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1.834 miekg-dns 1.0.1

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1.835 newt 0.19.7 2

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

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/
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1.841 zlib 1.2.3

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Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
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1.845 libncurses 6.1-1ubuntu1.18.04

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

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1.846 jetty-servlets 9.4.35.v20201120

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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**Oracle**

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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**Oracle OpenJDK**

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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**OW2**
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

### 1.847 opencensus 0.22.0

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1.848 six 1.16.0

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Marc Abramowitz
immerrr again
Alexander Artemenko
Aymeric Augustin
Lee Ball
Ben Bariteau
Ned Batchelder
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Brett Cannon
Jason R. Coombs
Julien Danjou
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Jon Dufresne
Tim Graham
Thomas Grainger
Max Grender-Jones  
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James Mills  
Jordan Moldow  
Berker Peksag  
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Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
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Aarti Parikh <aarti.parikh@gmail.com>
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Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Alekseev Artem <a.artem060@gmail.com>
Alessandro Arzilli <alessandro.arzilli@gmail.com>
Alessandro Buffa <alessandro.buffa@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alex.brainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Browne <stephenalexbrowne@gmail.com>
Alex Buchanan <buchanae@gmail.com>
Alex Carol <alex.carol.c@gmail.com>
Alex Gaynor <alex@alloy.us>
Alex Harford <alex.harford@saucelabs.com>
Alex Jin <toalexjin@gmail.com>
Alex Kohler <alexjohnkohler@gmail.com>
Alex Myasoedov <msoedov@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Tokarev <aleksator@gmail.com>
Alex Vaghin <crhyme@google.com>
Alex Zhurov <azhirov@gmail.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexd.ch>
Alexander F Rdsseth <alexander.rodseth@appeartv.com>
Alexander Greim <alexxx@iltempo.de>
Alexander Guz <kalimatatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Lourier <aml@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Nohe <alex.nohe427@gmail.com>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@gmail.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmai.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
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Andrew Medvedev <andrew.y.medvedev@gmail.com>
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Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Pan <panjf2000@gmail.com>
Andy Walker <walkeraj@gmail.com>
Andy Wang <cbeuw.and@gmail.com>
Andzzej Maciusovic <andzej.maciusovic@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Ankit Gandhi <anitgandhi@gmail.com>
Ankit Goyal <ankit3goyal@gmail.com>
Anmol Sethi <anmol@abubble.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Hartig <fastest963@gmail.com>
James Lawrence <jiljatone@gmail.com>
James Meneghello <rawrz0r@gmail.com>
James Myers <sfmyers9@gmail.com>
James Neve <jamesoneve@gmail.com>
James Nugent <james@jen20.com>
James P. Cooper <jamespcooper@gmail.com>
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
James Sweet <james.sweet88@googlemail.com>
James Toy <nil@opensesame.st>
James Treanor <jitreanor3@gmail.com>
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Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Lehnardt <jan@apache.org>
Jan Merc1 <0xjnm1@gmail.com> <befelemepeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Pilzer <jan.pilzer@gmx.de>
Jan Steinke <jan.steinke@gmail.com>
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jannis Andrija Schnitzer <jannis@schnitzer.im>
Jared Allard <jaredallard@users.noreply.github.com>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason A. Donenfeld <Jason@zx2c4.com>
Jason Baker <jason-baker@users.noreply.github.com>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jhuberel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delponte@j@gmail.com>
Jason Hall <jasonhall@gmail.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Kevin Malachowski <chowski@google.com>
Kevin Ruffin <kruiffin@gmail.com>
Kevin Vu <kevin.m.vu@gmail.com>
Kevin Zita <bleedgreenandgold@gmail.com>
Keyan Pishdadian <kpishdadian@gmail.com>
Kezhu Wang <kezhuw@gmail.com>
Khosrow Moossavi <khos2ow@gmail.com>
Kieran Colford <kieran@kcolford.com>
Kim Shrier <kshtrier@racktopsystems.com>
Kim Yongbin <kybinz@gmail.com>
Kir Kolyshkin <kolyshkin@gmail.com>
Kirill Korotaev <kirillx@gmail.com>
Kirill Motkov <motkov.Kirill@gmail.com>
Kirill Smelkov <kirr@nexedi.com>
Kirill Tatchihin <kirabsuis@gmail.com>
Kirk Han <kirk91.han@gmail.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
Klaus Post <klauspost@gmail.com>
Kodie Goodwin <kodiegoodwin@gmail.com>
Koichi Shiraiishi <zchee.io@gmail.com>
Koki Ide <niconegoto@yahoo.co.jp>
Koki Tomoshige <tomocy.dev@gmail.com>
Komu Wairagu <komuw05@gmail.com>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Koya IWAMURA <kiwamura0314@gmail.com>
Kris Kwiatkowski <kris@cloudflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@google.com>
Kristopher Watts <traetox@gmail.com>
Kshitij Saraogi <kshitijsaraogi@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kush Patel <kush.patel@hootsuite.com>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@gmail.com>
Kyle Nusbaum <kyle@datadog.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrylo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lanmn@google.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegmans <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonardo Comelli <leonardo.comelli@gmail.com>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Liam Haworth <liam@haworth.id.au>
Lily Chung <lilithkchung@gmail.com>
Lion Yang <lion@aosc.xyz>
Liz Rice <liz@lizrice.com>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenz Brun <lorenz@brun.one>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@gmail.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Rieffolo <luigi.rieffolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrjač <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luke Young <bored-engineer@users.noreply.github.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@google.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishsmail@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <nmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanmiquel <marcsanmiquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freheit.com>
Marcus Weiner <marcus.weiner@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuennerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mbbucc@gmail.com>
Mark Glines <mglines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephani <phst@google.com>
Pierre Carru <pierre.carru@eshard.com>
Pierre Durand <pierreredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Roulon <pierre.roulloan@gmail.com>
Piers <google@hellopiers.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishttatis@gmail.com>
Polina Osadcha <polliosa@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Povilas Versockas <p.povilas@gmail.com>
Prasanga Siripala <pj@pjeb.com.au>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Agrawal <prashant.a.vti@gmail.com>
Prashant Varanasi <prashant@prashantv.com>
Praveen Kumar <praveen+git@kumar.in>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Pure White <wu.purewhite@gmail.com>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <slsh1022@gmail.com>
Quan Tran <qued.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quey-Liang Kao <s101062801@m101.nthu.edu.tw>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Radek Sohlick <sohlick@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ryan Slade <ryanslade@gmail.com>
Ryan Zhang <ryan.zhang@docker.com>
Ryoichi KATO <ryo1kato@gmail.com>
Ryuji Iwata <qt.luigi@gmail.com>
Ryuma Yoshida <ryuma.y1117@gmail.com>
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>
S.alar Onur <caglar@10ur.org>
Sabin Mihai Rapan <sabin.rapan@gmail.com>
Sad Pencil <qho6@qq.com>
Sai Cheenalapati <saicheems@google.com>
Sakeen Jiang <jcf5930@sina.cn>
Salmn Aljammz <s@0x65.net>
Sam Arnold <samold64@bloomberg.net>
Sam Boyer <tech@samboyer.org>
Sam Chen <chenxsan@gmail.com>
Sam Cross <samgcdev@gmail.com>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic@google.com>
Sami Pnknen <sami.ponkanen@gmail.com>
Samuel Kelemen <SCKelemen@users.noreply.github.com>
Samuel Tan <samultan@gmail.com>
Samuele Pedroni <pedronis@lucediurna.net>
Sander van Harmelen <sander@vanharmelen.nl>
Sanjay Menakuru <balasanjay@gmail.com>
Santhosh Kumar Tekuri <santhosh.tekuri@gmail.com>
Sarah Adams <shadams@google.com>
Sardorbek Pulatov <sardorbek.pulatov@outlook.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@gmail.com>
Sasha Sobol <sasha@scaledinference.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Ragan <ragansa@fb.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@google.com>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <seanc@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Liao <seankhliao@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Chlopecki <sebsebmce@gmail.com>
Sebastian Kinne <skinne@google.com>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Shastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Lemeshkin < sergeilem@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergei Zagurskii <gvozdodero@gmail.com>
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synesis.ru>
Sergey Frolov <sfrolov@google.com>
Sergey Glushchenko <gsforge@gmail.com>
Sergey Ivanov <ser1325@gmail.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yankin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhat Giydiren <serhatgiydiren@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoening <seth.a.hoening@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shang Jian Ding <sding3@ncsu.edu>
Shaozhzen Ding <dsz0111@gmail.com>
Shaquille Wyan Que <shaqquywyna@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
Shawn Elliott <selliott@microsoft.com>
Shawn Ledbetter <slembetter@google.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shengzhou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengjing Zhu <zsj950618@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
Shijie Hao <shaormj@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivani Singhal <shivani.singhal2804@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shivashis Padhi <shivashispadhi@gmail.com>
Shubham Sharma <shubham.sha12@gmail.com>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simarpreet Singh <simar@linux.com>
Simon Drake <simondrake1990@gmail.com>
Simon Ferquel <simon.ferquel@docker.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Rozman <simon@rozman.si>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Soojin Nam <jsunam@gmail.com>
Sren L. Hansen <soren@linux2go.dk>
Spencer Kocot <spencerkocot@gmail.com>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@google.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@google.com>
Sridhar Venkatakrishnan <sridhar@laddoo.net>
Srinidhi Kaushik <shrinidhi.kaushik@gmail.com>
StalkR <stalkr@stalkr.net>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baebler <sbaebler@outbrain.com>
Stefan Nilsson <snnilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabalgin <neverliberty@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stephan Zuercher <zuercher@gmail.com>
Stphane Travostino <stephane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen Ma <stephenm@golang.org>
Stephen McQuay <stephen@mquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Mynott <steve.mynott@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeting <steve@stevestreeting.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sven Taute <sven.taute@gmail.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Tadeo Kondrak <me@tadeo.ca>
Taesu Pyo <spyotaesu@gmail.com>
Tai Le <letientai299@gmail.com>
Taj Khattria <taj.khattia@gmail.com>
Takashi Matsuo <tmatuo@google.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@gmail.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tams Gulcsi <tgulacs78@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Qingyun <qingyunha@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t1@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tn1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee CharoenpiriyaKij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
The Hatsune Daishi <nao20010128@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@google.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@google.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@google.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Symborski <thomas.symborski@gmail.com>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contacto@tiago.eti.br>
Tianji Wu <the729@gmail.com>
Tianon Gravi <admwiggin@gmail.com>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>
Tim Henderson <tim.tadh@gmail.com>
Tim Hockin <thockin@google.com>
Tim Mhlmann <muhlemmer@gmail.com>
Tim Swast <swast@google.com>
Tim Wright <tenortim@gmail.com>
Tim Xu <xiaoxubeii@gmail.com>
Timmy Douglas <timmyd983@gmail.com>
Timo Savola <timosavola@gmail.com>
Timo Truyts <alkaloid.btx@gmail.com>
Timothy Studd <tim@timstudd.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzts@desire.sh>
Yan Zou <yzou@google.com>
Yang Hau <vulxj08j8@gmail.com>
Yang Tian <linuxty@gmail.com>
Yann Hodique <yhodique@google.com>
Yann Kerherv <yann.kerherve@gmail.com>
Yann Salan <yannsalan@gmail.com>
Yannic Bonenberger <contact@yannic-bonenberger.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@gmail.com>
Yaroslav Vorobiov <yar.vorobiov@gmail.com>
Yasha Bubnov <girokompass@gmail.com>
Yasser Abdolmaleki <yasser@yasser.ca>
Yasuhiro Goto <matope.ono@gmail.com>
Yasushiho Matsumoto <mattn.jp@gmail.com>
Yasuuki Oka <yasuyk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <ylh@pdx.edu>
Yesudeep Mangalapilly <yesudeep.google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yohei Takeda <yo.tak0812@gmail.com>
Yongjian Xu <s3dmaster@gmail.com>
Yorman Arias <cixtords@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yuichi Kishimoto <yk2220s@gmail.com>
Yuichi Nishiwaki <yuichi.nishiwaki@gmail.com>
Yuji Yaginuma <yuji.yaginuma@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yugui Sonoda <yugui@gmail.com>
Yukihiro Nishinaka <6elpinal@gmail.com>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yvesj@gmail.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gershman <zachgersh@gmail.com>
Zach Jones <zachj1@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Gershman <zgershman@pivotal.io>
Zak <zrjknull@gmail.com>
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1.852 libyaml 0.1.7

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clarify this fact.
* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- $Id$ -->

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<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
<xsl:param name="text"/>
</xsl:template>

</xsl:stylesheet>
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1.860 ruby-net-telnet 0.1.1-2

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1.861 bundler 1.17.2

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1.862 jetty-io 9.4.35.v20201120

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
org.eclipse.jetty.toolchain:jetty-schemas

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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.

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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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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 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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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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1.866 path-to-regexp 0.1.7

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1.867 unpipe 1.0.0

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1.868 fzambia-sentinel 1.1.0

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1.869 json-java 2.1.0

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Found in path(s):
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/data/prototype.js
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* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/java/src/json/ext/OptionsReader.java
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/java/src/json/ext/ParserService.java
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/java/src/json/ext/StringEncoder.java
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# Changes

## 2017-04-18 (2.1.0)
* Allow passing of `decimal_class` option to specify a class as which to parse
  JSON float numbers.

## 2017-03-23 (2.0.4)
* Raise exception for incomplete unicode surrogates/character escape
  sequences. This problem was reported by Daniel Gollahon (dgollahon).
* Fix arbitrary heap exposure problem. This problem was reported by Ahmad Sherif (ahmadsherif).

## 2017-01-12 (2.0.3)
* Set `required_ruby_version` to 1.9
* Some small fixes

## 2016-07-26 (2.0.2)
* Specify `required_ruby_version` for json\_pure.
* Fix issue #295 failure when parsing frozen strings.

## 2016-07-01 (2.0.1)
* Fix problem when requiring json\_pure and Parser constant was defined top level.
* Add `RB_GC_GUARD` to avoid possible GC problem via Pete Johns.
* Store `current_nesting` on stack by Aaron Patterson.

## 2015-09-11 (2.0.0)
* Now complies to newest JSON RFC 7159.
* Implements compatibility to ruby 2.4 integer unification.
* Drops support for old rubies whose life has ended, that is rubies < 2.0.
  Also see https://www.ruby-lang.org/en/news/2014/07/01/eol-for-1-8-7-and-1-9-2/
* There were still some mentions of dual GPL licensing in the source, but JSON has just the Ruby license that itself includes an explicit dual-licensing clause that allows covered software to be distributed under the terms of the Simplified BSD License instead for all ruby versions >= 1.9.3. This is however a GPL compatible license according to the Free Software Foundation.
  I changed these mentions to be consistent with the Ruby license setting in the gemspec files which were already correct now.

## 2015-06-01 (1.8.3)
* Fix potential memory leak, thx to nobu.

## 2015-01-08 (1.8.2)
* Some performance improvements by Vipul A M <vipulnsward@gmail.com>.
* Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of `JSON.dump_default_options`.
* More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing `space_before` accessor in generator.
* Performance on JRuby improved by Ben Browning <bbrownin@redhat.com>.
* Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io> and SHIBATA Hiroshi <hsbt@ruby-lang.org>.

## 2013-05-13 (1.8.1)
* Remove Rubinius exception since transcoding should be working now.

## 2013-05-13 (1.8.0)
* Fix https://github.com/flori/json/issues/162 reported by Marc-Andre
Lafortune <github_rocks@marc-andre.ca>. Thanks!
* Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with
  -Wchar-subscripts and better validate UTF-8 strings.
* Applied patch by ginriki@github to remove unnecessary if.
* Add load/dump interface to `JSON::GenericObject` to make
  serialize :some_attribute, `JSON::GenericObject`
  work in Rails active models for convenient `SomeModel#some_attribute.foo.bar`
  access to serialised JSON data.

## 2013-02-04 (1.7.7)
* Security fix for JSON create_additions default value and
  `JSON::GenericObject`. It should not be possible to create additions unless
  explicitly requested by setting the create_additions argument to true or
  using the JSON.load/dump interface. If `JSON::GenericObject` is supposed to
  be automatically deserialised, this has to be explicitly enabled by
  setting
    JSON::GenericObject.json_creatable = true
  as well.
* Remove useless assert in fbuffer implementation.
* Apply patch attached to https://github.com/flori/json/issues#issue/155
  provided by John Shahid <jvshahid@gmail.com>, Thx!
* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

## 2012-11-29 (1.7.6)
* Add `GeneratorState#merge` alias for JRuby, fix state accessor methods. Thx to
  jvshahid@github.
* Increase hash likeness of state objects.

## 2012-08-17 (1.7.5)
* Fix compilation of extension on older rubies.

## 2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see https://github.com/flori/json/issues/142

## 2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.

## 2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the
  extension variant in jruby 1.9 mode.

## 2012-04-28 (1.7.1)
* Some small fixes for building

## 2012-04-28 (1.7.0)
* Add `JSON::GenericObject` for method access to objects transmitted via JSON.
## 2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.

## 2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting
everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo
<tom.enebo@gmail.com>), should fix
  * Fix https://github.com/flori/json/issues#issue/117

## 2012-01-15 (1.6.5)
* Vit Ondruch <v.ondruch@tiscali.cz> reported a bug that shows up when using
optimisation under GCC 4.7. Thx to him, Bohuslav Kabrda
<bkabrda@redhat.com> and Yui NARUSE <naruse@airemix.jp> for debugging and
developing a patch fix.

## 2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter
<headius@headius.com>.
* Support `object_class`/`array_class` with duck typed hash/array.

## 2011-12-01 (1.6.3)
* Let `JSON.load('')` return nil as well to make mysql text columns (default to
`''`) work better for serialization.

## 2011-11-21 (1.6.2)
* Add support for OpenStruct and BigDecimal.
* Fix bug when parsing nil in `quirks_mode`.
* Make JSON.dump and JSON.load methods better cooperate with Rails' serialize
  method. Just use:
  
  serialize :value, JSON
* Fix bug with time serialization concerning nanoseconds. Thanks for the
  patch go to Josh Partlow (jpartlow@github).
* Improve parsing speed for JSON numbers (integers and floats) in a similar way to
what Evan Phoenix <evan@phx.io> suggested in:
  https://github.com/flori/json/pull/103

## 2011-09-18 (1.6.1)
* Using -target 1.5 to force Java bits to compile with 1.5.

## 2011-09-12 (1.6.0)
* Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
* Split json/add/core into different files for classes to be serialised.

## 2011-08-31 (1.5.4)
* Fix memory leak when used from multiple JRuby. (Patch by
jfirebaugh@github).
* Apply patch by Eric Wong <nocode@yhbt.net> that fixes garbage collection problem reported in https://github.com/flori/json/issues/46.
* Add :quirks_mode option to parser and generator.
* Add support for Rational and Complex number additions via json/add/complex and json/add/rational requires.

## 2011-06-20 (1.5.3)
* Alias State#configure method as State#merge to increase duck type synonymy with Hash.
* Add `as_json` methods in json/add/core, so rails can create its json objects the new way.

## 2011-05-11 (1.5.2)
* Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
* Add gemspecs for json and json\_pure.
* Fix bug in jruby pretty printing.
* Fix bug in `object_class` and `array_class` when inheriting from Hash or Array.

## 2011-01-24 (1.5.1)
* Made rake-compiler build a fat binary gem. This should fix issue https://github.com/flori/json/issues\#issue/54.

## 2011-01-22 (1.5.0)
* Included Java source codes for the Jruby extension made by Daniel Luz <dev@mernen.com>.
* Output full exception message of `deep_const_get` to aid debugging.
* Fixed an issue with ruby 1.9 `Module#const_defined?` method, that was reported by Riley Goodside.

## 2010-08-09 (1.4.6)
* Fixed oversight reported in http://github.com/flori/json/issues\#issue/23, always create a new object from the state prototype.
* Made pure and ext api more similar again.

## 2010-08-07 (1.4.5)
* Manage data structure nesting depth in state object during generation. This should reduce problems with `to_json` method definitions that only have one argument.
* Some fixes in the state objects and additional tests.

## 2010-08-06 (1.4.4)

## 2010-05-05 (1.4.3)
* Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.
* Fixed issue http://github.com/flori/json/issues/\#issue/20 reported by electronicwhisper@github. Thx!
## 2010-04-26 (1.4.2)
* Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with Microsoft Visual C possible again.
* Applied patch from devrandom <c1.github@niftybox.net> in order to allow building of json_pure if extension task is not present.
* Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory leak, which is fixed in this release.
* Applied 993f261ccb8f911d2ae57e9db48ec7acd0187283 patch from josh@github.

## 2010-04-25 (1.4.1)
* Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T_FIXNUM being different on 32bit/64bit architectures.

## 2010-04-23 (1.4.0)
* Major speed improvements and building with simplified directory/file-structure.
* Extension should at least be compatible with MRI, YARV and Rubinius.

## 2010-04-07 (1.2.4)
* Trigger const_missing callback to make Rails' dynamic class loading work.

## 2010-03-11 (1.2.3)
* Added a `State[]` method which returns an attribute's value in order to increase duck type compatibility to Hash.

## 2010-02-27 (1.2.2)
* Made some changes to make the building of the parser/generator compatible to Rubinius.

## 2009-11-25 (1.2.1)
* Added `:symbolize_names` option to Parser, which returns symbols instead of strings in object names/keys.

## 2009-10-01 (1.2.0)
* `fast_generate` now raises an exception for nan and infinite floats.
* On Ruby 1.8 JSON supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE, and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion functions are used to convert from all supported encodings. ASCII-8BIT encoded strings are handled like all strings under Ruby 1.8 were.
* Better documentation

## 2009-08-23 (1.1.9)
* Added forgotten main doc file `extra_rdoc_files`.

## 2009-08-23 (1.1.8)
* Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure work in environments that don't provide iconv.
* Applied patch by okkez_ in order to fix Ruby Bug #1768:
* Finally got around to avoid the rather paranoid escaping of ?/ characters
in the generator's output. The parsers aren't affected by this change.
Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.

## 2009-06-29 (1.1.7)
* Security Fix for JSON::Pure::Parser. A specially designed string could
cause catastrophic backtracking in one of the parser's regular expressions
in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue.
Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this
problem.
* This release also uses a less strict ruby version requirement for the
creation of the mswin32 native gem.

## 2009-05-10 (1.1.6)
* No changes. tested native linux gems in the last release and they don't
play well with different ruby versions other than the one the gem was built
with. This release is just to bump the version number in order to skip the
native gem on rubyforge.

## 2009-05-10 (1.1.5)
* Started to build gems with rake-compiler gem.
* Applied patch object/array class patch from Brian Candler
  <B.Candler@pobox.com> and fixes.

## 2009-04-01 (1.1.4)
* Fixed a bug in the creation of serialized generic rails objects reported by
  Friedrich Graeter <graeter@hydrixos.org>.
* Deleted tests/runner.rb, we're using testrb instead.
* Editor supports Infinity in numbers now.
* Made some changes in order to get the library to compile/run under Ruby
  1.9.
* Improved speed of the code path for the fast_generate method in the pure
  variant.

## 2008-07-10 (1.1.3)
* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's Date-Time
  handling: If the nominator and denominator of the offset were divisible by
  each other Ruby's Rational#to_s returns them as an integer not a fraction
  with '/'. This caused a ZeroDivisionError during parsing.
* Use Date#start and DateTime#start instead of sg method, while
  remaining backwards compatible.
* Supports ragel >= 6.0 now.
* Corrected some tests.
* Some minor changes.

## 2007-11-27 (1.1.2)
* Remember default dir (last used directory) in editor.
* JSON::Editor.edit method added, the editor can now receive json texts from
  the clipboard via C-v.
* Load json texts from an URL pasted via middle button press.
* Added :create_additions option to Parser. This makes it possible to disable
  the creation of additions by force, in order to treat json texts as data
  while having additions loaded.
* Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON
  object if the rails addition is enabled, which is wrong. It now outputs a
  JSON string "foo" instead, like suggested by Jacob Maine.
* Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported
  by John Evans lgastako@gmail.com. He could produce a crash in the JSON
  generator by returning something other than a String instance from a
  to_json method. I now guard against this by doing a rather crude type
  check, which raises an exception instead of crashing.

## 2007-07-06 (1.1.1)
* Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby
  1.9. I applied them and adapted some of them a bit to run both on 1.8 and
  1.9.
* Introduced a `JSON.parse!` method without depth checking for people who
  like danger.
* Made generate and `pretty_generate` methods configurable by an options hash.
* Added :allow_nan option to parser and generator in order to handle NaN,
  Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers,
  aren't valid JSON according to RFC4627, so by default an exception will be
  raised if any of these symbols are encountered. Thanks to Andrea Censi
  <andrea.censi@dis.uniroma1.it> for his hint about this.
* Fixed some more tests for Ruby 1.9.
* Implemented dump/load interface of Marshal as suggested in ruby-core:11405
  by murphy <murphy@rubychan.de>.
* Implemented the `max_nesting` feature for generate methods, too.
* Added some implementations for ruby core's custom objects for
  serialisation/deserialisation purposes.

## 2007-05-21 (1.1.0)
* Implemented max_nesting feature for parser to avoid stack overflows for
  data from untrusted sources. If you trust the source, you can disable it
  with the option max_nesting => false.
* Piers Cawley <pdcawley@bofh.org.uk> reported a bug, that not every
  character can be escaped by `\` as required by RFC4627. There's a
  contradiction between David Crockford's JSON checker test vectors (in
  tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because
  the JSON checker seems to be a bit older than the RFC.
* Extended license to Ruby License, which includes the GPL.
* Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

## 2007-05-09 (1.0.4)
* Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile
under Ruby 1.9. Thank you very much for mailing it to me!
* Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading the binary.

## 2007-03-24 (1.0.3)
* Improved performance of pure variant a bit.
* The ext variant of this release supports the mswin32 platform. Ugh!

## 2007-03-24 (1.0.2)
* Ext Parser didn't parse 0e0 correctly into 0.0: Fixed!

## 2007-03-24 (1.0.1)
* Forgot some object files in the build dir. I really like that - not!

## 2007-03-24 (1.0.0)
* Added C implementations for the JSON generator and a ragel based JSON parser in C.
* Much more tests, especially fixtures from json.org.
* Further improved conformance to RFC4627.

## 2007-02-09 (0.4.3)
* Conform more to RFC4627 for JSON: This means JSON strings now always must contain exactly one object `"{ ... }"` or array `"[ ... ]"` in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby (`[ \t\r\n\]`), and there are differences in floats and integers (no octals or hexadecimals) as well.
* Added aliases `generate` and `pretty_generate` of `unparse` and `pretty_unparse`.
* Fixed a test case.
* Catch an `Iconv::InvalidEncoding` exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!

## 2006-08-25 (0.4.2)
* Fixed a bug in handling solidi (/ -characters), that was reported by Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

## 2006-02-06 (0.4.1)
* Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.

## 2005-09-23 (0.4.0)
* Initial Rubyforge Version

Found in path(s):
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/CHANGES.md
The JavaScript Object Notation (JSON) Data Interchange Format

Abstract

JavaScript Object Notation (JSON) is a lightweight, text-based, language-independent data interchange format. It was derived from the ECMAScript Programming Language Standard. JSON defines a small set of formatting rules for the portable representation of structured data.

This document removes inconsistencies with other specifications of JSON, repairs specification errors, and offers experience-based interoperability guidance.

Status of This Memo

This is an Internet Standards Track document.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Further information on Internet Standards is available in Section 2 of RFC 5741.

Information about the current status of this document, any errata, and how to provide feedback on it may be obtained at http://www.rfc-editor.org/info/rfc7159.
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1. Introduction

JavaScript Object Notation (JSON) is a text format for the
serialization of structured data. It is derived from the object literals of JavaScript, as defined in the ECMA-Script Programming Language Standard, Third Edition [ECMA-262].

JSON can represent four primitive types (strings, numbers, booleans, and null) and two structured types (objects and arrays).

A string is a sequence of zero or more Unicode characters [UNICODE]. Note that this citation references the latest version of Unicode rather than a specific release. It is not expected that future changes in the UNICODE specification will impact the syntax of JSON.

An object is an unordered collection of zero or more name/value pairs, where a name is a string and a value is a string, number, boolean, null, object, or array.

An array is an ordered sequence of zero or more values.
described in [ECMA-404].

All of the specifications of JSON syntax agree on the syntactic elements of the language.

1.3. Introduction to This Revision

In the years since the publication of RFC 4627, JSON has found very wide use. This experience has revealed certain patterns, which, while allowed by its specifications, have caused interoperability problems.

Also, a small number of errata have been reported (see RFC Errata IDs 607 [Err607] and 3607 [Err3607]).

This document's goal is to apply the errata, remove inconsistencies with other specifications of JSON, and highlight practices that can lead to interoperability problems.

2. JSON Grammar

A JSON text is a sequence of tokens. The set of tokens includes six structural characters, strings, numbers, and three literal names.

A JSON text is a serialized value. Note that certain previous specifications of JSON constrained a JSON text to be an object or an array. Implementations that generate only objects or arrays where a JSON text is called for will be interoperable in the sense that all implementations will accept these as conforming JSON texts.

\[\text{JSON-text} = \text{ws value ws}\]

These are the six structural characters:

\[\text{begin-array} = \text{ws} \text{%x5B ws ; [ left square bracket}\]

\[\text{begin-object} = \text{ws} \text{%x7B ws ; { left curly bracket}\]

\[\text{end-array} = \text{ws} \text{%x5D ws ; ] right square bracket}\]
end-object = ws %x7D ws ; } right curly bracket

name-separator = ws %x3A ws ; : colon

value-separator = ws %x2C ws ; , comma

Insignificant whitespace is allowed before or after any of the six structural characters.

ws = *( %x20 / ; Space
     %x09 / ; Horizontal tab
     %x0A / ; Line feed or New line
     %x0D ) ; Carriage return

3. Values

A JSON value MUST be an object, array, number, or string, or one of the following three literal names:

false null true

The literal names MUST be lowercase. No other literal names are allowed.

value = false / null / true / object / array / number / string

false = %x66.61.6c.73.65 ; false
null = %x6e.75.6c.6c ; null
true = %x74.72.75.65 ; true

4. Objects

An object structure is represented as a pair of curly brackets surrounding zero or more name/value pairs (or members). A name is a string. A single colon comes after each name, separating the name from the value. A single comma separates a value from a following
name. The names within an object SHOULD be unique.

```
object = begin-object [ member *( value-separator member ) ]
        end-object

member = string name-separator value
```

An object whose names are all unique is interoperable in the sense that all software implementations receiving that object will agree on the name-value mappings. When the names within an object are not unique, the behavior of software that receives such an object is unpredictable. Many implementations report the last name/value pair only. Other implementations report an error or fail to parse the object, and some implementations report all of the name/value pairs, including duplicates.

JSON parsing libraries have been observed to differ as to whether or not they make the ordering of object members visible to calling software. Implementations whose behavior does not depend on member ordering will be interoperable in the sense that they will not be affected by these differences.

5. Arrays

An array structure is represented as square brackets surrounding zero or more values (or elements). Elements are separated by commas.

```
array = begin-array [ value *( value-separator value ) ] end-array
```

There is no requirement that the values in an array be of the same type.

6. Numbers

The representation of numbers is similar to that used in most programming languages. A number is represented in base 10 using decimal digits. It contains an integer component that may be prefixed with an optional minus sign, which may be followed by a fraction part and/or an exponent part. Leading zeros are not allowed.

A fraction part is a decimal point followed by one or more digits.
An exponent part begins with the letter E in upper or lower case, which may be followed by a plus or minus sign. The E and optional sign are followed by one or more digits.

Numeric values that cannot be represented in the grammar below (such as Infinity and NaN) are not permitted.

```plaintext
number = [ minus ] int [ frac ] [ exp ]

decimal-point = %x2E ; .

digit1-9 = %x31-39 ; 1-9

e = %x65 / %x45 ; e E

exp = e [ minus / plus ] 1*DIGIT

frac = decimal-point 1*DIGIT

int = zero / ( digit1-9 *DIGIT )

minus = %x2D ; -

plus = %x2B ; +

zero = %x30 ; 0
```

This specification allows implementations to set limits on the range and precision of numbers accepted. Since software that implements IEEE 754-2008 binary64 (double precision) numbers [IEEE754] is generally available and widely used, good interoperability can be achieved by implementations that expect no more precision or range than these provide, in the sense that implementations will approximate JSON numbers within the expected precision. A JSON number such as 1E400 or 3.141592653589793238462643383279 may indicate potential interoperability problems, since it suggests that the software that created it expects receiving software to have greater capabilities for numeric magnitude and precision than is widely available.

Note that when such software is used, numbers that are integers and are in the range [-(2**53)+1, (2**53)-1] are interoperable in the sense that implementations will agree exactly on their numeric values.
7. Strings

The representation of strings is similar to conventions used in the C family of programming languages. A string begins and ends with quotation marks. All Unicode characters may be placed within the quotation marks, except for the characters that must be escaped: quotation mark, reverse solidus, and the control characters (U+0000 through U+001F).

Any character may be escaped. If the character is in the Basic Multilingual Plane (U+0000 through U+FFFF), then it may be represented as a six-character sequence: a reverse solidus, followed by the lowercase letter u, followed by four hexadecimal digits that encode the character's code point. The hexadecimal letters A though F can be upper or lower case. So, for example, a string containing only a single reverse solidus character may be represented as "\u005C".

Alternatively, there are two-character sequence escape representations of some popular characters. So, for example, a string containing only a single reverse solidus character may be represented more compactly as "\".

To escape an extended character that is not in the Basic Multilingual Plane, the character is represented as a 12-character sequence, encoding the UTF-16 surrogate pair. So, for example, a string containing only the G clef character (U+1D11E) may be represented as "\uD834\uDD1E".

```
string = quotation-mark *char quotation-mark
char = unescaped / escape ( %x22 / ; " quotation mark U+0022 %x5C / ; \ reverse solidus U+005C %x2F / ; / solidus U+002F %x62 / ; b backspace U+0008 %x66 / ; f form feed U+000C
```
8. String and Character Issues

8.1. Character Encoding

JSON text SHALL be encoded in UTF-8, UTF-16, or UTF-32. The default encoding is UTF-8, and JSON texts that are encoded in UTF-8 are interoperable in the sense that they will be read successfully by the maximum number of implementations; there are many implementations that cannot successfully read texts in other encodings (such as UTF-16 and UTF-32).

Implementations MUST NOT add a byte order mark to the beginning of a JSON text. In the interests of interoperability, implementations that parse JSON texts MAY ignore the presence of a byte order mark rather than treating it as an error.

8.2. Unicode Characters

When all the strings represented in a JSON text are composed entirely of Unicode characters [UNICODE] (however escaped), then that JSON text is interoperable in the sense that all software implementations that parse it will agree on the contents of names and of string values in objects and arrays.

However, the ABNF in this specification allows member names and string values to contain bit sequences that cannot encode Unicode characters; for example, \uDEAD (a single unpaired UTF-16 surrogate). Instances of this have been observed, for example, when a library truncates a UTF-16 string without checking whether the truncation split a surrogate pair. The behavior of software that
receives JSON texts containing such values is unpredictable; for example, implementations might return different values for the length of a string value or even suffer fatal runtime exceptions.

8.3. String Comparison

Software implementations are typically required to test names of object members for equality. Implementations that transform the textual representation into sequences of Unicode code units and then perform the comparison numerically, code unit by code unit, are interoperable in the sense that implementations will agree in all cases on equality or inequality of two strings. For example, implementations that compare strings with escaped characters unconverted may incorrectly find that "a\b" and "a\u005Cb" are not equal.

9. Parsers

A JSON parser transforms a JSON text into another representation. A JSON parser MUST accept all texts that conform to the JSON grammar. A JSON parser MAY accept non-JSON forms or extensions.

An implementation may set limits on the size of texts that it accepts. An implementation may set limits on the maximum depth of nesting. An implementation may set limits on the range and precision of numbers. An implementation may set limits on the length and character contents of strings.

10. Generators

A JSON generator produces JSON text. The resulting text MUST strictly conform to the JSON grammar.

11. IANA Considerations

The MIME media type for JSON text is application/json.

Type name: application
Subtype name: json

Required parameters: n/a

Optional parameters: n/a

Encoding considerations: binary

Security considerations: See [RFC7159], Section 12.

Interoperability considerations: Described in [RFC7159]

Published specification: [RFC7159]

Applications that use this media type:
JSON has been used to exchange data between applications written in all of these programming languages: ActionScript, C, C#, Clojure, ColdFusion, Common Lisp, E, Erlang, Go, Java, JavaScript, Lua, Objective CAML, Perl, PHP, Python, Rebol, Ruby, Scala, and Scheme.
12. Security Considerations

Generally, there are security issues with scripting languages. JSON is a subset of JavaScript but excludes assignment and invocation.

Since JSON's syntax is borrowed from JavaScript, it is possible to use that language's "eval()" function to parse JSON texts. This generally constitutes an unacceptable security risk, since the text could contain executable code along with data declarations. The same consideration applies to the use of eval()-like functions in any other programming language in which JSON texts conform to that language's syntax.

13. Examples

This is a JSON object:

```json
{
  "Image": {
```

Its Image member is an object whose Thumbnail member is an object and whose IDs member is an array of numbers.

This is a JSON array containing two objects:

```
[
{
  "precision": "zip",
  "Latitude": 37.7668,
  "Longitude": -122.3959,
  "Address": "",
  "City": "SAN FRANCISCO",
  "State": "CA",
  "Zip": "94107",
  "Country": "US"
},
{
  "precision": "zip",
  "Latitude": 37.371991,
  "Longitude": -122.026020,
  "Address": "",
  "City": "SUNNYVALE",
  "State": "CA",
  "Zip": "94085",
  "Country": "US"
}
]
Here are three small JSON texts containing only values:

"Hello world!"

42

ture

14. Contributors

RFC 4627 was written by Douglas Crockford. This document was constructed by making a relatively small number of changes to that document; thus, the vast majority of the text here is his.

15. References

15.1. Normative References

<http://grouper.ieee.org/groups/754/>.


15.2. Informative References


[Err3607] RFC Errata, Errata ID 3607, RFC 3607,
<table>
<thead>
<tr>
<th>RFC 7159</th>
<th>JSON</th>
<th>March 2014</th>
</tr>
</thead>
</table>


Appendix A. Changes from RFC 4627

This section lists changes between this document and the text in RFC 4627.

- Changed the title and abstract of the document.
- Changed the reference to [UNICODE] to be not version specific.
- Added a "Specifications of JSON" section.
- Added an "Introduction to This Revision" section.
- Changed the definition of "JSON text" so that it can be any JSON value, removing the constraint that it be an object or array.
- Added language about duplicate object member names, member ordering, and interoperability.
- Clarified the absence of a requirement that values in an array be of the same JSON type.
- Applied erratum #607 from RFC 4627 to correctly align the artwork for the definition of "object".
- Changed "as sequences of digits" to "in the grammar below" in the "Numbers" section, and made base-10-ness explicit.
- Added language about number interoperability as a function of IEEE754, and added an IEEE754 reference.
o Added language about interoperability and Unicode characters and about string comparisons. To do this, turned the old "Encoding" section into a "String and Character Issues" section, with three subsections: "Character Encoding", "Unicode Characters", and "String Comparison".

o Changed guidance in the "Parsers" section to point out that implementations may set limits on the range "and precision" of numbers.

o Updated and tidied the "IANA Considerations" section.

o Made a real "Security Considerations" section and lifted the text out of the previous "IANA Considerations" section.

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o Applied erratum #3607 from RFC 4627 by removing the security consideration that begins "A JSON text can be safely passed" and the JavaScript code that went with that consideration.

o Added a note to the "Security Considerations" section pointing out the risks of using the "eval()" function in JavaScript or any other language in which JSON texts conform to that language's syntax.

o Added a note to the "IANA Considerations" clarifying the absence of a "charset" parameter for the application/json media type.

o Changed "100" to 100 and added a boolean field, both in the first example.

o Added examples of JSON texts with simple values, neither objects nor arrays.

o Added a "Contributors" section crediting Douglas Crockford.

o Added a reference to RFC 4627.
Moved the ECMAScript reference from Normative to Informative and updated it to reference ECMAScript 5.1, and added a reference to ECMA 404.

Author's Address

Tim Bray (editor)
Google, Inc.

EMail: tbray@textuality.com

1.870 jersey-container-servlet 2.25.1

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1.872 sprig 2.22.0+incompatible

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1.873 libburn 1.4.8-1

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Derek Foreman <derek@signalmarketing.com> and Ben Jansens <xor@orodu.net>
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1.884 go-runtime 1.14.2
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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Jensen <jensen.aaro@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Sheah <aaronsheah@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Anderson Queiroz <contato@andersonq.eti.br>
Andr Carvalho <asantostc@gmail.com>
Andr Martins <aanm90@gmail.com>
Andre Nathan <andre nth@gmail.com>
Andrea Nodari <andrea.nodari91@gmail.com>
Andrea Simonini <andrea.simonini@gmail.com>
Andrea Spadaccini <spadaccio@gmail.com>
Andreas Auernhammer <aead@mail.de>
Andreas Jellinghaus <andreas@ionisiert.de> <anj@google.com>
Andreas Litt <andreas.litt@gmail.com>
Andrei Enshin <b1os@bk.ru>
Andrei Gherzan <andrei@resin.io>
Andrei Korzhevskii <a.korzhevskiy@gmail.com>
Andrei Matei <andrei@cockroachlabs.com>
Andrei Tudor Clin <mail@acln.ro>
Andrei Vagin <avagin@gmail.com>
Andrei Vieru <euvieru@gmail.com>
Andres Erbsen <andreser@google.com>
Andres Lowrie <andres.lowrie@gmail.com>
Andrew Austin <andrewaclt@gmail.com>
Andrew Balholm <andybalholm@gmail.com>
Andrew Benton <andrewmbenton@gmail.com>
Andrew Bonventre <andybons@chromium.org>
Andrew Braunstein <awbraunstein@gmail.com>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt <andrew.ekstedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew G. Morgan <agm@google.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@gmail.com>
Andrew Kemm <andrewkemm@gmail.com>
Andrew Louis <alouis@digitalocean.com>
Andrew Lutomirski <andy@luto.us>
Andrew Medvedev <andrew.y.medvedev@gmail.com>
Andrew Pilloud <andrewpil loud@igneousystems.com>
Andrew Pogrebnoy <absourd.noise@gmail.com>
Andrew Poydence <apoydence@pivotal.io>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Stormont <astormont@racktopsystems.com>
Andrew Stribblehill <ads@wompom.org>
Andrew Szeto <andrew@jabagawee.com>
Andrew Todd <andrew.todd@wework.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrew Z Allen <me@andrewzallen.com>
Andrey Bokhanko <andreybokhanko@gmail.com>
Andrey Mirchovski <mirchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzeje eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstein <afinkenstadt@zynga.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmalone@gmail.com>
Andy Pan <panjf2000@gmail.com> <panjf2000@golang.cn.org> <i@andypan.me>
Andy Walker <walkeraj@gmail.com>
Andy Wang <cebeu.and@gmail.com>
Andy Williams <andy@andy.xyz>
Andy Zhao <andyzhao@google.com>
Andzzej Maciusovic <andzej.maciusovic@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Anit Gandhi <anitgandhi@gmail.com>
Ankit Goyal <ankit3goyal@gmail.com>
Amol Sethi <amol@aubble.com>
Annirudh Prasad <annirudh@wandb.com>
Anschel Schaffer-Cohen <anschelsc@gmail.com>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony.canino1@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony Fok <foka@debian.org>
Anthony Martin <anity@pbrane.org>
Anthony Sottile <asottile@umich.edu>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Antoine GIRARD <sapk@sapk.fr>
Antoine Martin <antoin97.martin@gmail.com>
Anton Gyllenberg <anton@iki.fi>
Anton Kuuklin <anton.a.kuklin@gmail.com>
Antonin Amand <antonin.amand@gmail.com>
Antonio Antelo <aantelov87@gmail.com>
Antonio Bibiano <antbhn@gmail.com>
Antonio Garcia <garcia.olais@gmail.com>
Antonio Huete Jimenez <tuxillo@quantumachine.net>
Antonio Murdaca <runcom@redhat.com>
Antonio Troina <thoeni@gmail.com>
Anze Kolar <me@akolar.com>
Damien Mathieu <42@dmathieu.com>
Damien Neil <dneil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@gmail.com>
Dan Jacques <dnj@gmail.com>
Dan Johnson <computerdruid@gmail.com>
Dan McArdle <dmcardle@gmail.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Scales <danscales@gmail.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Cohen <dcohen@gatech.edu>
Daniel Cormier <danielp@knowbe4.com>
Danil de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingramds@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Kessler <dkess@gmail.com>
Daniel Krench <eikeon@eikeon.com>
Daniel Kumor <rdkumor@gmail.com>
Daniel Langner <s8572327@gmail.com>
Daniel Lidh <daniel.liden.87@gmail.com>
Daniel Lublin <daniel@lublin.se>
Daniel Mangum <georgedanielmangum@gmail.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel McCarney <cpu@letsencrypt.org>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@gmail.com>
Daniel Nephin <dnephin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel S. Fava <danielsfava@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daniela Petruzalek <daniela.petruzalek@gmail.com>
Danish Dua <danishdua@gmail.com>
Danish Prakash <grafitykoncept@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymon <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darren Grant <darren.e.grant@gmail.com>
Darren McCleary <darren.mcc@gmail.com>
David Tolpin <david.tolpin@gmail.com>
David Url <david@urld.io>
David Volquartz Lebech <david@lebech.info>
David Wimmer <davidlwimmer@gmail.com>
Davies Liu <davies.liu@gmail.com>
Davor Kapsa <davor.kapsa@gmail.com>
Dean Eigenmann <7621705+decanus@users.noreply.github.com>
Dean Prichard <dean.prichard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Deepak S <deepakspavoodath@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Isaev <idenx@yandex.com>
Denis Nagorny <denis.nagorny@intel.com>
Dennis Kuhnert <mail.kuhnert@gmail.com>
Denys Honsiorovskyi <honsiorovskyi@gmail.com>
Denys Smirnov <denis.smirnov.91@gmail.com>
Derek Buitenhuys <derek.buitenhuys@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgsite.net>
Derek Parker <parkerderek86@gmail.com>
Derek Phan <derekphan94@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Dev Ojha <dojha12@gmail.com>
Dev Zhoujun <dev.zhoujun@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhaivat Pandit <dhaivatpandit@gmail.com>
Dhananjay Nakrani <dhananjayn@gmail.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
Dhruv Dut <dhruv.dut@gmail.com>
Di Xiao <dixiao@gmail.com>
Didier Spezia <didier.06@gmail.com>
Diego Medina <fmpwizard@gmail.com>
Diego Siqueira <diego9889@gmail.com>
Dieter Plaetinck <dieter@raintank.io>
Dilyn Corner <dilyn.corner@gmail.com>
Dimitri Sokolyuk <sokolyuk@gmail.com>
Dimitri Tcaciuc <dttcaciuc@gmail.com>
Dina Garmash <dgrmsh@gmail.com>
Diogo Pinela <diogoid7400@gmail.com>
Dirk Gadsden <dirk@esherido.com>
Diwaker Gupta <diwakergupta@gmail.com>
Dmitri Gottnik <dgottnik@gmail.com>
Dmitriy Popov <operator@cv.dp-net.com>
Dmitriy Shuralyov <dmitshur@golang.org> <dmitriy@shuralyov.com>
Dmitrii Okunev <xaionaro@gmail.com>
Dmitriy Cherchenko <dcherchenko@gmail.com>
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>
Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com>
Dmitriy Vyuok <dvyukov@google.com>
Dmitry Chestnykh <dchest@gmail.com>
Dmitry Doroginixin <doroginin@gmail.com>
Dmitry Motll <dmitry.mottl@gmail.com>
Dmitry Neverov <dmitry.neverov@gmail.com>
Dmitry Savintsev <dsavints@gmail.com>
Dmitry Yakunin <nonamezeil@gmail.com>
Doga Fincan <doga@icloud.com>
Domas Tamauskas <puerdomus@gmail.com>
Domen Ipavec <domen@ipavec.net>
Dominic Della Valle <ddvpublic@Gmail.com>
Dominic Green <dominicgreen1@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Don Byington <d@byington.com>
Donald Huang <don.hcd@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@google.com>
Doug Fawley <dfawley@google.com>
Douglas Danger Manley <doug.manley@gmail.com>
Drew Flower <drewvanstone@gmail.com>
Drew Hintz <adhintz@google.com>
Drew Richardson <drewrichardson@gmail.com>
Duco van Amstel <duco.vanamstel@gmail.com>
Duncan Holm <mail@frou.org>
Dustin Carlino <dcarlino@google.com>
Dustin Herbison <djherbis@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>
Dylan Waits <dylan@waits.io>
Ed Schouten <ed@nuxi.nl>
Edan Bedrik <3d4nb3@gmail.com>
Eddie Scholtz <escholtz@google.com>
Eden Li <eden.li@gmail.com>
Eduard Urbach <e.urbach@gmail.com>
Eduardo Ramalho <eduardo.ramalho@gmail.com>
Eduardo Villaseor <evillasrmx@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Ugedal <eivind@ugedal.com>
El Mostafa Idrassi <el.mostafa.idrassi@gmail.com>
Elbert Flick <eflick@gmail.com>

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Eldar Rakhimberdin <ibeono@gmail.com>
Elena Grahovac <elena@grahovac.me>
Eli Bendersky <eliben@google.com>
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Ellison Leao <ellisonleao@gmail.com>
Elvina Yakubova <elvinayakubova@gmail.com>
Emerson Lin <linyintor@gmail.com>
Emil Bektimirov <lefelys@gmail.com>
Emil Hessman <emil@hessman.se>
Emil Mursalimov <mursalimovee@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Emrecan Bati <emrecanbati@gmail.com>
Eno Compton <enocom@google.com>
Eoghan Sherry <ejsherry@gmail.com>
Eric Biggers <ebiggers@google.com>
Eric Brown <browne@vmware.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric Engstrom <eric@engstrom.ch>
Eric Garrido <ekg@gmail.com>
Eric Koleda <ekoleda+devrel@gmail.com>
Eric Lagergren <ericcmsg9@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rutherford <erutherford@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Eric Wang <wangchaogo1990@gmail.com>
Erick Tryzelaar <etryzelaar@gmail.com>
Erik Aigner <aigner.ek@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@gmail.com>
Erik Westrup <erik.westrup@gmail.com>
Erin Masatsugu <erin.masatsugu@gmail.com>
Ernest Chiang <ernest.chiang@htc.com>
Erwin Oegema <blablaechthema@hotmail.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@gmail.com>
Ethan Hur <ethan0311@gmail.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <euank@euank.com>
Eugene Formanenko <mo4islona@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <santy.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Masaya Watanabe <sfbgwm30@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulyss <mgulyas86@gmail.com>
Matej Bao <matejbuco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapiski <czapkofan@gmail.com>
Matheus Alcantara <matheussilv97@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <ne@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscars.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Masurka <masurka@google.com>
Mickey Reiss <mickeyreiss@gmail.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Acero <acero@google.com>
Miguel Mendez <stxmendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <mikti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.ably.org>
Mike Danese <mikedanense@gmail.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.roset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <molo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@google.com>
Mikhail Fesenko <proggga@gmail.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <mikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milan Patel <bicelot3@gmail.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Mirko Hansen <baaazen@gmail.com>
Miroslav Genov <smgenov@gmail.com>
Misty De Meo <mistydeomeo@gmail.com>
Mohamed Attahri <mohamed@attahri.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajo36@gmail.com>
Mohit Verma <vmohit.93@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <mkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moritz Fain <moritz@fain.io>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevds@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Praveen Kumar <praveen+git@kumar.in>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Pure White <wu.purewhite@gmail.com>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <silsh1022@gmail.com>
Quan Tran <squeen.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quey-Liang Kao <s101062801@m101.nthu.edu.tw>
Quim Muntal <quimmuntal@gmail.com>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Rabin Gaire <rabinstitute20@gmail.com>
Radek Simko <radek.simko@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>
Rahul Bajaj <rahulrb0509@gmail.com>
Rahul Chaudhry <rahulchauhdhry@chromium.org>
Rahul Wadhwani <rahulwadhwani21@gmail.com>
Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Randy Reddig <randy@alta.software>
Raph Leven <raph@google.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Ravil Bikbulatov <weeellz12@gmail.com>
RaviTeja Pothana <ravitezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Ray Wu <ray@liftoff.io>
Raymond Kazlauskas <raima220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Rmy Oudompheng <oudompe@phare.normalesup.org> <remyoudompheng@gmail.com>
Ren Ogaki <re.yuz77777@gmail.com>
Rens Rikkerink <lkkerens@users.noreply.github.com>
Roger Peppe <rogpeppe@gmail.com>
Rohan Challa <rohan@golang.org>
Rohan Verma <rohanverma2004@gmail.com>
Rohith Ravi <entombedvirus@gmail.com>
Roland Illig <roland.illig@gmx.de>
Roland Shoemaker <rolandshoemaker@gmail.com>
Romain Baugue <romain.baugue@elwinar.com>
Roman Budnikov <romanyyx90@yandex.ru>
Roman Kollr <roman.kollar.0@gmail.com>
Roman Shchekin <mrqtros@gmail.com>
Ron Hashimoto <mail@h2so5.net>
Ron Minnich <rminnich@gmail.com>
Ronnie Ebrin <ebrin.ronnie@protonmail.com>
Ross Chater <rdchater@gmail.com>
Ross Kinsey <rosskinsey@gmail.com>
Ross Light <light@google.com> <rlight2@gmail.com>
Ross Smith II <ross@smithii.com>
Rowan Marshall <rowanajmarshall@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rudi Kramer <rudi.kramer@gmail.com>
Rui Ueyama <ruii.google.com>
Ruixin Bao <ruixin.bao@ibm.com>
Ruslan Andreev <ruslan.andreev@huawei.com>
Ruslan Nigmatullin <elessar@dropbox.com>
Russ Cox <rsc@golang.org>
Russell Haering <russellhaering@gmail.com>
Ryan Bagwell <ryanbagwell@outlook.com>
Ryan Barrett <ryanb@gmail.com>
Ryan Boehning <ryan.boehning@apcera.com>
Ryan Brown <ribrdb@gmail.com>
Ryan Canty <jrcanty@gmail.com>
Ryan Dahl <ry@tinyclouds.org>
Ryan Hitchman <hitchmanr@gmail.com>
Ryan Kohler <ryankohler@gmail.com>
Ryan Lower <rpjlower@gmail.com>
Ryan Roden-Corrent <ryan@rcorre.net>
Ryan Seys <ryan@ryanseys.com>
Ryan Slade <ryanslade@gmail.com>
Ryan Zhang <ryan.zhang@docker.com>
Ryoichi KATO <ryokkato@gmail.com>
Ryoya Sekino <ryoyasekino1993@gmail.com>
Ryuji Iwata <qt.luigi@gmail.com>
Ryuma Yoshida <ryuma.y1117@gmail.com>
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>
S.alar Onur <caglar@10ur.org>
Sabin Mihai Rapan <sabin.rapan@gmail.com>
Sad Pencil <qh06@qq.com>
Sai Cheemalapati <saicheems@gmail.com>
Shi Han Ng <shihanng@gmail.com>
ShihCheng Tu <mrtoastcheng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shin Fan <shinfan@google.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shinnosuke Sawada <6warash9i@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivani Singhal <shivani.singhal2804@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shivashis Padhi <shivashtpadhi@gmail.com>
Shoshin Nikita <shoshin_nikita@fastmail.com>
Shota Sugiuira <s.shota.710.3506@gmail.com>
Shubham Sharma <shubham.sha12@gmail.com>
Shuhei Takahashi <nya@chromium.org>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simo Gomes Viana <simaogmv@gmail.com>
Simarpreet Singh <simar@linux.com>
Simon Drake <simondrake1990@gmail.com>
Simon Ferquel <simon.ferquel@docker.com>
Simon Frei <freisim93@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Rozman <simon@rozman.si>
Simon Ser <contact@emersion.fr>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chennova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>
Soko7ov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Song Lim <songlim327@gmail.com>
Songjiayang <songjiayang1@gmail.com>
Songlin Jiang <hollowman@hollowman.ml>
Soojin Nam <jsunam@gmail.com>
Sren L. Hansen <soren@linux2go.dk>
Sparrow Li <liyuyanxl@gmail.com>
Spencer Kocot <spencerkocot@gmail.com>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@google.com>
Spenser Black <spenserblack01@gmail.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@google.com>
Sridhar Venkatakrishnan <sridhar@laddoo.net>
Srinidhi Kaushik <shrinidhi.kaushik@gmail.com>
StalkR <stalkr@stalkr.net>
Stan Hu <stanhu@gmail.com>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baebler <sbaebler@outbrain.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stephan Shabalin <neverliberty@gmail.com>
Stephan Klatt <stephan.klatt@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stephan Zuercher <zuercher@gmail.com>
Stephane Travostino <stephane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen Ma <stephenm@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Mynott <steve.mynott@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streetering <steve@stevestreeting.com>
Steve Traut <straat@google.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Maude <git@stevenmaude.co.uk>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Subham Sarkar <sarkar.subhams2@gmail.com>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@gmail.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sven Lee <lee1300394324@gmail.com>
Sven Taute <sven.taute@gmail.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Tadeo Kondrak <me@tadeo.ca>
Tae-su Pyo <spyo@aeu.com>
Tai Le <letientai299@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@tms.com>
Takashi Mima <tks.m1205@gmail.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@gmail.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tams Gulcivi <tgulcivi@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Qingyun <qingyunha@gmail.com>
Tao Shen <shentao@skyking.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <sai@ts120022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsushiro Tsujikawa <tatsushiro.t@gmail.com>
Tatsuya Kaneko <m.dottx.f@gmail.com>
Taufiq Rahman <taufiqr8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunreedy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@tms.com>
Thanabodee Charoenpiriyaikij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
The Hatsune Daishi <nao20010128@gmail.com>
Thiago Avelino <gobelino.xxx@gmail.com>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thom Wiggers <thom@thomwiggers.nl>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@gmail.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@gmail.com>
Thomas de Zeeuw <thomas.dezeeuw@gmail.com>
Thomas Desrosiers <thomas.desro@gmail.com>
Thomas Habets <habets@gmail.com>
Open Source Used In SMI 2021.01.0-Jan-2022  12061

Uriel Mangado <uriel@berlinblue.org>
Urval Patel <patelurvil38@gmail.com>
Utkarsh Dixit <53217283+utkarsh-extc@users.noreply.github.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Val Polouchkine <vpolouchk@justin.tv>
Valentin Vidić <vvidic@valentin-vidic.from.hr>
Vaughn Iverson <vsivsi@yahoo.com>
Vee Zhang <vee Zhang@126.com> <vveezhang@gmail.com>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostovsky@gmail.com>
Viacheslav Poturaev <vrearutop@gmail.com>
Victor Chudnovsky <vchudnov@google.com>
Victor Michel <victor@optimyzecloud.com>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@google.com>
Ville Skytt <ville.skytta@iki.fi>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <v Vincent.vanackere@gmail.com>
Vinit Rajashekhar <vinutheraj@gmail.com>
Vish Subramanian <vish@google.com>
Vishal Dalwadi <dalwadivishal26@gmail.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara R <r.visweswara@gmail.com>
Vitaly Zdanevich <zdanevich.vitaly@ya.ru>
Vitor De Mario <vitordemario@gmail.com>
Vivek Sekhar <vsekharemail.com>
Vivek V <iamvivekv96@gmail.com>
Vivian Liang <vliang88@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Evgrafov <evgrafov.vladimir@gmail.com>
Vladimir Kovpak <cn007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Vojtech Bocek <v bocek@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotski <vpaprots@ca.ibm.com>
W. Trevor King <wking@tremily.us>
Wade Simmons <wade@wades.im>
Wagner Riffel <wgriffel@gmail.com>
Walt Della <walt@javins.net>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walter Poupore</td>
<td><a href="mailto:wpoupore@google.com">wpoupore@google.com</a></td>
</tr>
<tr>
<td>Wander Lairson Costa</td>
<td><a href="mailto:wcosta@mozilla.com">wcosta@mozilla.com</a></td>
</tr>
<tr>
<td>Wang Xuerui</td>
<td><a href="mailto:git@xen0n.name">git@xen0n.name</a></td>
</tr>
<tr>
<td>Warren Fernandes</td>
<td><a href="mailto:warren.f.fernandes@gmail.com">warren.f.fernandes@gmail.com</a></td>
</tr>
<tr>
<td>Wayne Ashley Berry</td>
<td><a href="mailto:wayneashleyberry@gmail.com">wayneashleyberry@gmail.com</a></td>
</tr>
<tr>
<td>Wedson Almeida Filho</td>
<td><a href="mailto:wedsonaf@google.com">wedsonaf@google.com</a></td>
</tr>
<tr>
<td>Weerasak Chongnguluam</td>
<td><a href="mailto:singpor@gmail.com">singpor@gmail.com</a></td>
</tr>
<tr>
<td>Wi Cngru</td>
<td><a href="mailto:crvv.mail@gmail.com">crvv.mail@gmail.com</a></td>
</tr>
<tr>
<td>Wei Fu</td>
<td><a href="mailto:thfuwei@163.com">thfuwei@163.com</a></td>
</tr>
<tr>
<td>Wei Guangjing</td>
<td><a href="mailto:vcc.163@gmail.com">vcc.163@gmail.com</a></td>
</tr>
<tr>
<td>Wei Xiao</td>
<td><a href="mailto:wei.xiao@arm.com">wei.xiao@arm.com</a></td>
</tr>
<tr>
<td>Wei Xikai</td>
<td><a href="mailto:xykwei@gmail.com">xykwei@gmail.com</a></td>
</tr>
<tr>
<td>Weichao Tang</td>
<td><a href="mailto:tevic.tt@gmail.com">tevic.tt@gmail.com</a></td>
</tr>
<tr>
<td>Weixie Cui</td>
<td><a href="mailto:cuixweixie@gmail.com">cuixweixie@gmail.com</a> <a href="mailto:523516579@qq.com">523516579@qq.com</a></td>
</tr>
<tr>
<td>Wembley G. Leach, Jr</td>
<td><a href="mailto:wembley.gl@gmail.com">wembley.gl@gmail.com</a></td>
</tr>
<tr>
<td>Wenlei (Frank) He</td>
<td><a href="mailto:wlhe@google.com">wlhe@google.com</a></td>
</tr>
<tr>
<td>Wenzel Lowe</td>
<td><a href="mailto:lowewenzel@gmail.com">lowewenzel@gmail.com</a></td>
</tr>
<tr>
<td>Wil Selwood</td>
<td><a href="mailto:wselwood@gmail.com">wselwood@gmail.com</a></td>
</tr>
<tr>
<td>Wilfried Teiken</td>
<td><a href="mailto:wteiken@gmail.com">wteiken@gmail.com</a></td>
</tr>
<tr>
<td>Will Beason</td>
<td><a href="mailto:willbeason@gmail.com">willbeason@gmail.com</a></td>
</tr>
<tr>
<td>Will Chan</td>
<td><a href="mailto:willchan@google.com">willchan@google.com</a></td>
</tr>
<tr>
<td>Will Faught</td>
<td><a href="mailto:will.fautht@gmail.com">will.fautht@gmail.com</a></td>
</tr>
<tr>
<td>Will Morrow</td>
<td><a href="mailto:wmorrow.qdt@qualcommdatalcenter.com">wmorrow.qdt@qualcommdatalcenter.com</a></td>
</tr>
<tr>
<td>Will Norris</td>
<td><a href="mailto:willnorris@google.com">willnorris@google.com</a></td>
</tr>
<tr>
<td>Will Storey</td>
<td><a href="mailto:will@sumercat.com">will@sumercat.com</a></td>
</tr>
<tr>
<td>Willem van der Schyff</td>
<td><a href="mailto:willemvds@gmail.com">willemvds@gmail.com</a></td>
</tr>
<tr>
<td>William Chan</td>
<td><a href="mailto:willchan@chromium.org">willchan@chromium.org</a></td>
</tr>
<tr>
<td>William Chang</td>
<td><a href="mailto:mr.williamchang@gmail.com">mr.williamchang@gmail.com</a></td>
</tr>
<tr>
<td>William Josephson</td>
<td><a href="mailto:wjoephythson@gmail.com">wjoephythson@gmail.com</a></td>
</tr>
<tr>
<td>William Langford</td>
<td><a href="mailto:wlangfor@gmail.com">wlangfor@gmail.com</a></td>
</tr>
<tr>
<td>William Orr</td>
<td><a href="mailto:will@worrbase.com">will@worrbase.com</a> <a href="mailto:ay1244@gmail.com">ay1244@gmail.com</a></td>
</tr>
<tr>
<td>William Poussier</td>
<td><a href="mailto:william.poussier@gmail.com">william.poussier@gmail.com</a></td>
</tr>
<tr>
<td>Wisdom Omuya</td>
<td><a href="mailto:deafgoat@gmail.com">deafgoat@gmail.com</a></td>
</tr>
<tr>
<td>Wu Yunzhou</td>
<td><a href="mailto:yunzouwu@gmail.com">yunzouwu@gmail.com</a></td>
</tr>
<tr>
<td>Xi Ruoyao</td>
<td><a href="mailto:xry23333@gmail.com">xry23333@gmail.com</a></td>
</tr>
<tr>
<td>Xia Bin</td>
<td><a href="mailto:snyh@snyh.org">snyh@snyh.org</a></td>
</tr>
<tr>
<td>Xiangdong Ji</td>
<td><a href="mailto:xiangdong.ji@arm.com">xiangdong.ji@arm.com</a></td>
</tr>
<tr>
<td>Xiaodong Liu</td>
<td><a href="mailto:teaofmoli@gmail.com">teaofmoli@gmail.com</a></td>
</tr>
<tr>
<td>Xing Gao</td>
<td><a href="mailto:18340825824@163.com">18340825824@163.com</a></td>
</tr>
<tr>
<td>Xing Xing</td>
<td><a href="mailto:mikespook@gmail.com">mikespook@gmail.com</a></td>
</tr>
<tr>
<td>Xingqang Bai</td>
<td><a href="mailto:bxq2011hust@qq.com">bxq2011hust@qq.com</a></td>
</tr>
<tr>
<td>Xu Fei</td>
<td><a href="mailto:badgangkiller@gmail.com">badgangkiller@gmail.com</a></td>
</tr>
<tr>
<td>Xudong Zhang</td>
<td><a href="mailto:felixmelon@gmail.com">felixmelon@gmail.com</a></td>
</tr>
<tr>
<td>Xudong Zheng</td>
<td><a href="mailto:7pkvm5aw@slicenalias.com">7pkvm5aw@slicenalias.com</a></td>
</tr>
<tr>
<td>Xuyang Kang</td>
<td><a href="mailto:xuyangkang@gmail.com">xuyangkang@gmail.com</a></td>
</tr>
<tr>
<td>Yamagishi Kazutoshi</td>
<td><a href="mailto:yktz@desire.sh">yktz@desire.sh</a></td>
</tr>
<tr>
<td>Yan Zou</td>
<td><a href="mailto:yzou@google.com">yzou@google.com</a></td>
</tr>
<tr>
<td>Yang Hau</td>
<td>&lt;vulxj0@<a href="mailto:8j8@gmail.com">8j8@gmail.com</a>&gt;</td>
</tr>
</tbody>
</table>
Yang Tian <linuxty@gmail.com>
Yann Hodique <yhodique@google.com>
Yann Kerherv <yann.kerherve@gmail.com>
Yann Salan <yannsalaun1@gmail.com>
Yannie Bonenberger <contact@yannie-bonenberger.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@gmail.com>
Yaroslav Vorobiov <yar.vorobiov@gmail.com>
Yasha Bubnov <girokompas@gmail.com>
Yasser Abdolmaleki <yasser@yasser.ca>
Yasuharu Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yasutaka Shinzaki <shinzaki@yasu26.tech>
Yasuyuki Oka <yasuyk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <ylh@pdx.edu>
Yesudeep Mangalapilly <yesudeep@gmail.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yohei Takeda <yo.tak0812@gmail.com>
Yongjian Xu <si3dmaster@gmail.com>
Yorman Arias <cixtords@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Youfu Zhang <zhangyoufu@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yu, Li-Yu <afg984@gmail.com>
Yuichi Kishimoto <yk2220s@gmail.com>
Yuichi Nishiwaki <yuichi.nishiwaki@gmail.com>
Yuji Yaginuma <yuji.yaginuma@gmail.com>
Yuki Ito <mrno110y@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yugui Sonoda <yugui@google.com>
Yukihiro Nishinaka <hempinal@gmail.com>
YunQiang Su <syq@debian.org>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zhokover <paulzhol@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gershman <zachgersh@gmail.com>
Zach Hoffman <zrhoffman@apache.org>
Zach Jones <zachj1@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Gershman <zgershman@pivotal.io>
Zak <zrknill@gmail.com>
Zakatell Kanda <hi@zkanda.io>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zhang Boyang <zhangboyang.id@gmail.com>
Zheng Dayu <davidzheng23@gmail.com>
Zheng Xu <zheng.xu@arm.com>
Zhengyu He <hzy@google.com>
Zhongpeng Lin <zplin@uber.com>
Zhongtao Chen <chenzhongtao@126.com>
Zhongwei Yao <zhongwei.yao@arm.com>
Zhou Peng <p@ctriple.cn>
Ziad Hatahet <hatahet@gmail.com>
Ziheng Liu <lzhfromustc@gmail.com>
Zizhao Zhang <btw515wolf2@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
Zvonimir Pavlinovic <zpavlinovic@google.com>
Zyad A. Ali <zyad.ali.me@gmail.com>
<a.maksadbek@gmail.com>
<max.faceless.frei@gmail.com>
<hagen1778@gmail.com>
<thunyk@gmail.com>
<faxriddinjon@gmail.com>
<zs349596@gmail.com>
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### 1.886 go-runtime 1.16.5

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# Names should be added to this file as: 
# Name <email address> 
Raul Silvera <rsilvera@google.com> 
Tipp Moseley <tipp@google.com> 
Hyoun Kyu Cho <netforce@google.com> 
Martin Spier <spiermar@gmail.com> 
Taco de Wolff <tacodewolff@gmail.com> 
Andrew Hunter <andrewhhunter@gmail.com> 

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# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Jensen <jensen.aaro@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
AlekSa Sarai <cyphar@cyphar.com>
Aleksandar Dezelin <dezelin@gmail.com>
Aleksandr Lukinykh <a.lukinykh@xsolla.com>
Aleksandr Razumov <ar@cydev.ru>
Alekseev Artem <a.arteMo60@gmail.com>
Alessandro Arzilli <alessandro.arzilli@gmail.com>
Alessandro Baffa <alessandro.baffa@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alexbrainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Browne <stephenalexbrowne@gmail.com>
Alex Buchanan <buchanae@gmail.com>
Alex Carol <alex.carol.c@gmail.com>
Alex Gaynor <alex@alloy.us>
Alex Harford <alex.harford@saucelabs.com>
Alex Hays <alex.hays@leftfieldlabs.com>
Alex Jin <toalexjin@gmail.com>
Alex Kohler <alexjohnkohler@gmail.com>
Alex Myasoedov <msoedov@gmail.com>
Alex Opie <samtopie@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Tokarev <aleksator@gmail.com>
Alex Vaghin <crhyme@google.com>
Alex Zhiro <azhiro@gmail.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexd.ch>
Alexander F Rodseth <alexander.rodseth@appeartv.com>
Alexander Greim <alexxx@iltempo.de>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Klauer <Alexander.Klauer@googlemail.com>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Louvier <saml@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Nohe <alex.nohe427@gmail.com>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Pantyukhin <apantyukhin@gmail.com>
Alexander Polcyn <apolcyn@gmail.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Andreas Litt <andreas.litt@gmail.com>
Andrei Enshin <b1os@bk.ru>
Andrei Gherzan <andrei@resin.io>
Andrei Korzhevskii <a.korzhevskiy@gmail.com>
Andrei Matei <andrei@cockroachlabs.com>
Andrei Tudor Clin <mail@acln.ro>
Andrei Vagin <avagin@google.com>
Andrei Vieru <euvieru@gmail.com>
Andres Erbsen <andreser@google.com>
Andres Lowie <andres.lowie@gmail.com>
Andrew Austin <andrewaclt@gmail.com>
Andrew Balholm <andybalholm@gmail.com>
Andrew Benton <andrewmbenton@gmail.com>
Andrew Bonventre <andybons@chromium.org>
Andrew Braunstein <awbraunstein@gmail.com>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt <andrew.ekstedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew G. Morgan <agm@google.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@google.com>
Andrew Kemm <andrewkemm@gmail.com>
Andrew Louis <alouis@digitalocean.com>
Andrew Lutomirski <andy@luto.us>
Andrew Medvedev <andrew.y.medvedev@gmail.com>
Andrew Pilloud <andrewpilloud@igneoussystems.com>
Andrew Pogrebnoy <absourd.noise@gmail.com>
Andrew Poydence <apoydence@pivotal.io>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Stormont <astormont@racktopsystems.com>
Andrew Stribblehill <ads@wompom.org>
Andrew Szeto <andrew@jabagwwe.com>
Andrew Todd <andrew.todd@wework.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrew Z Allen <me@andrewzallen.com>
Andrey Bokhanko <andreybokhanko@gmail.com>
Andrey Mirtchovski <mirtchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Carl Johnson <me@carlmjohnson.net>
Carl Mastrangelo <notcarl@google.com>
Carl Shapiro <cshapiro@golang.com> <cshapiro@golang.org>
Carlisia Campos <carlisia@grokkingtech.io>
Carlo Alberto Ferraris <caffxx@strayorange.com>
Carlos Alejandro Becker <caarlos0@gmail.com>
Carlos Amedee <carlos@golang.org>
Carlos Castillo <cookieo9@gmail.com>
Carlos Cirello <uldericofilho@gmail.com>
Carlos Eduardo <me@carlosedp.com>
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>
Carlos Iriarte <ciriarte@gmail.com>
Carlos Souza <carlosrsoouza@gmail.com>
Carolyn Van Slyck <me@carolynvanslyck.com>
Carrie Bynon <cbynon@gmail.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Callendrello <squeed@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <cnicutar@gmail.com>
Catalin Patulea <catalinp@gmail.com>
Cathal O'Callaghan <cathalsocallaghan@gmail.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
Chad Rosier <mrosier.qdt@qualcommdatcenter.com>
ChaiShushan <chaishushan@gmail.com>
Changkun Ou <hi@changkun.us>
Channing Kimble-Brown <channing@golang.org>
Chao Xu <xuchao@gmail.com>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <eldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@gmail.com>
Charlotte Brandhorst-Satzkorn <catzkorn@gmail.com>
Chauncy Cullitan <chauncyc@gmail.com>
Chen Zhidong <njutezd@gmail.com>
Chen Zhihan <energiehund@gmail.com>
Cherry Zhang <cherryzyz@gmail.com>
Chew Choon Keat <choonkeat@gmail.com>
Chiawen Chen <golopot@gmail.com>
Chirag Sukhala <chhirag77@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <chbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Daniel Krech <eikeon@eikeon.com>
Daniel Kumor <rdkumar@gmail.com>
Daniel Langner <s8572327@gmail.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Lublin <daniel@lublin.se>
Daniel Mangum <georgedanielmangum@gmail.com>
Daniel Mart <nvdan@nvdan.cc>
Daniel McCarney <cpu@letsencrypt.org>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@google.com>
Daniel Nephin <dnephin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel S. Fava <danielsfava@gmail.com>
Daniel Skinner <daniel@dana.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daniela Petruzalek <daniela.petrzalek@gmail.com>
Danish Dua <danishdua@gmail.com>
Danish Prakash <grafitykoncept@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymond <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darren Grant <dgrant@dana.cc>
Darren McCleary <darren.mcc@gmail.com>
Darshana Parajuli <parajulidarshan@gmail.com>
Datong Sun <ndx@ndx.com>
Dave Borowitz <dave.borowitz@gmail.com>
Dave Bort <davebort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <dave@golang.org>
Dave Grihalva <dgrimalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Piike <dave@piike.org>
Dave Russell <fortunescache@gmail.com>
David Anderson <danderson@gmail.com>
David Barnett <dbarnett@gmail.com>
David Benjamin <davidben@gmail.com>
David Bond <davodsbond93@gmail.com>
David Brophy <dave@brophy.uk>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Carlier <devnexen@gmail.com>
David Carter <fresco.raja@gmail.com>
David Chase <dchase@gmail.com>
David Covert <davidcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@gmail.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Finkel <david.finkel@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Golden <david@autopragmatic.com>
David Heuschmann <heuschmann.d@gmail.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Jones <dxjones@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@gmail.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David Qu <davidqu12345@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Timm <dtimm@pivotal.io>
David Titarenco <david.titarenco@gmail.com>
David Tolpin <david.tolpin@gmail.com>
David Url <david@url.io>
David Volquartz Lebech <david@lebech.info>
David Wimmer <davidlwimmer@gmail.com>
Davies Liu <davies.liu@gmail.com>
Davor Kapsa <davor.kapsa@gmail.com>
Dean Eigenmann <7621705+decanus@users.noreply.github.com>
Dean Prichard <dean.pritchard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Isaev <idenx@yandex.com>
Denis Nagorny <denis.nagorny@intel.com>
Dennis Kuhnert <mail.kuhnert@gmail.com>
Denys Hansiorovskyi <hansiorovskyi@gmail.com>
Denys Smirnov <denys.smirnov.91@gmail.com>
Derek Buitenhuys <derek.buitenhuys@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgstyle.net>
Derek Parker <parkerderek86@gmail.com>
Derek Phan <derekphan94@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Dev Ojha <dojha12@gmail.com>
Dustin Carlino <dcarlino@google.com>
Dustin Herbison <djherbis@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>
Dylan Waits <dylan@waits.io>
Ed Schouten <ed@nuxi.nl>
Edan Bedrik <3d4nb3@gmail.com>
Eddie Scholtz <escholtz@google.com>
Eden Li <eden.li@gmail.com>
Eduard Urbach <e.urbach@gmail.com>
Eduardo Ramalho <eduardo.ramalho@gmail.com>
Eduardo Villaseor <evillasrmx@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Ugedal <eivind@ugedal.com>
Elbert Flick <eflick@gmail.com>
Eldar Rakkimberdin <ibeono@gmail.com>
Elena Grahovac <elena@grahovac.me>
Eli Bendersky <eliben@google.com>
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Ellison Leao <ellisonleao@gmail.com>
Emerson Lin <linyintor@gmail.com>
Emil Bektimirov <lefelys@gmail.com>
Emil Hessman <emil@hessman.se>
Emil Mursalimov <mursalimovemeel@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Emrecan Bati <emrecanbati@gmail.com>
Eno Compton <enocom@google.com>
Eoghan Sherry <ejsherry@gmail.com>
Eric Biggers <ebiggers@google.com>
Eric Brown <ebrowne@vmware.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@gmail.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Bnemann <Felix.Buenemann@gmail.com>
Felix Cornelius <9767036+fcornelius@users.noreply.github.com>
Felix Geisendrfer <haimuiba@gmail.com>
Felix Kollmann <fk@konsorten.de>
Ferenc Szabo <frncmx@gmail.com>
Filip Grușczeysi <gruszczy@gmail.com>
Filip Haglund <dathier@users.noreply.github.com>
Filip Stanis <fstanis@google.com>
Filippo Valsorda <filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Forster <octo@google.com>
Florian Ueckermann <florian@ueckermann-online.de> <f1@ueckermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francesco Guardiani <francescoguard@gmail.com>
Francesco Renzi <rentziass@gmail.com>
Francisco Claude <fclaude@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscosouza@gmail.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <fsomers@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Frederik Zipp <fzipp@gmx.de>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
Frithjof Schulze <schulze@math.uni-hannover.de> <sf@fri@hjof@gmail.com>
Frits van Bommel <fbv.bommel@gmail.com>
Fujimoto Kyosuke <kyoro.f@gmail.com>
Fumitoshi Ukai <ukai@google.com>
G. Hussain Chinoy <ghchinoy@gmail.com>
Gaal Yahas <gaal@google.com>
Gabriel Arthr Ptursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Guzman <gabe.guzman@gmail.com>
Gabriel Nelle <tehsphinx@web.de>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Rosenhouse <rosenhouse@gmail.com>
Gabriel Russell <gabriel.russell@gmail.com>
Gareth Paul Jones <gpj@foursquare.com>
Garret Kelly <gdk@octopod.com>
Ian Lance Taylor <iant@golang.org>
Ian Leue <ian@appboy.com>
Ian Tay <iantay@gmail.com>
Ian Zapolsky <ianzapolsky@gmail.com>
Ibrahim AshShohail <ibra.sho@gmail.com>
Icarus Sparry <golang@icarus.freeuk.com>
Iccha Sethi <icchasethi@gmail.com>
Idora Shinatose <idora.shinatose@gmail.com>
Ignacio Hagopian <jsign.uy@gmail.com>
Igor Bernstein <igor.bernstein@google.com>
Igor Bolotnikov <igor.v.bolotnikov@gmail.com>
Igor Dolzhikov <bluesriverz@gmail.com>
Igor Vashyst <ivashyst@gmail.com>
Igor Zhilianin <igor.zhilianin@gmail.com>
Ikko Ashimine <eltociear@gmail.com>
Illya Yakovlev <yakovlev@gmail.com>
Ilya Sinelnikov <sidhmangh@gmail.com>
Ilya Tocar <ilya.tocar@intel.com>
INADA Naoki <songofacandy@gmail.com>
Inanc Gumus <m@inanc.io>
Ingo Gottwald <in.gottwald@gmail.com>
Ingo Krabbe <ikrabbe.ask@gmail.com>
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>
Ioannis Georgoulas <geototti21@hotmail.com>
Irbe Krumina <irbekrm@gmail.com>
Irfan Sharif <irfanmahmouddsharif@gmail.com>
Irieda Noboru <irieda@gmail.com>
Isaac Ardis <isaac.ardis@gmail.com>
Isaac Wagner <ibw@isaacwagner.me>
Ispan Ahbab <isfanahhab@gmail.com>
Iskander Sharipov <iskander.sharipov@intel.com> <quasilyte@gmail.com>
Issac Trots <issactrots@gmail.com>
Ivan Babrou <ivan@cloudflare.com>
Ivan Bertona <ivan.bertona@gmail.com>
Ivan Krasin <krasin@golang.org>
Ivan Kutuzov <arbrix@gmail.com>
Ivan Markin <sw@nogoevst.net>
Ivan Moscoso <moscoso@gmail.com>
Ivan Osadchiy <ivan.osadchii@gmail.com>
Ivan Sharavuev <shpiwan@gmail.com>
Ivan Trubach <mr.trubach@icloud.com>
Ivan Ukhov <ivan.ukhov@gmail.com>
Ivy Evans <ivy@ivyevans.net>
Jaana Burcu Dogan <jbd@rap.org> <jbd@golang.org> <burcujdogan@gmail.com>
Jaap Aarts <jaap.aarts1@gmail.com>
Jack Britton <jackxbritton@gmail.com>
Jack Lindamood <jlindamo@justin.tv>
Jacob Baskin <jbaskin@gmail.com>
Jamil Djadala <djadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratovil <jan.kratovil@redhat.com>
Jan Lehwardt <jan@apache.org>
Jan Mercl <0xjnml@gmail.com> <befelemepeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Pilzer <jan.pilzer@gmx.de>
Jan Steinke <jan.steinke@gmail.com>
Jan Ziaa <0xe2.0x9a.0x9b@gmail.com>
Jani Moneses <jani.moneses@ubuntu.com> <jani.moneses@gmail.com>
Jannis Andrija Schnitzer <jannis@schnitzer.im>
Jared Allard <jaredallard@users.noreply.github.com>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason A. Donenfeld <Jason@zx2c4.com>
Jason Baker <jason-baker@users.noreply.github.com>
Jason Barnett <jason.barnett@gmail.com>
Jason Buberel <jubahrerel@gmail.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delponte@gmail.com>
Jason Hall <jasonhall@gmail.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wangsadinata <jwangsadainata@gmail.com>
Javier Kohen <jkohen@google.com>
Javier Revillas <jrevillas@massivedynamic.io>
Javier Segura <javism@gmail.com>
Jay Conrod <jayconrod@gmail.com>
Jay Lee <BusyJayLee@gmail.com>
Jay Taylor <outtatime@gmail.com>
Jay Weisskopf <jay@jayschwa.net>
Jean de Klerk <deklert@gmail.com>
Jean-Andr Santoni <jean.andre.santoni@gmail.com>
Jean-Francois Bustarret <jf@bustarret.com>
Jean-Francois Cantin <jf.cantin@gmail.com>
Jean-Marc Eurin <jmeurin@gmail.com>
Jean-Nicolas Moal <jnmooal@gmail.com>
Jed Denlea <jed@fastly.com>
Jdrzej Szczepaniak <jbszczepaniak@gmail.com>
Jeet Parekh <jeetparekh96@gmail.com>
Jeevanandam M <jeeva@myjeeva.com>
Jeff (Zhefu) Jiang <jeffjiang@gmail.com>
Jeff Craig <jeffcraig@gmail.com>
Jeff Dupont <jeff.dupont@gmail.com>
Jeff Hodges <jeff@somethingsimilar.com>
Joe Henke <joed.henke@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Joe Poirier <jpoirier@gmail.com>
Joe Richey <joerichey@google.com>
Joe Shaw <joe@joeshaw.org>
Joe Sylve <joe.sylve@gmail.com>
Joe Tsai <joe.tsai@digital-static.net>
Joel Sing <joel@sing.id.au> <jsing@google.com>
Jol Stemmer <jstemmer@google.com>
Joel Stemmer <stemmertech@gmail.com>
Joey Geiger <jgeiger@users.noreply.github.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
Johan Euphrosine <proppy@google.com>
Johan Jansson <johan.jansson@iki.fi>
Johan Knutzen <johan@senri.se>
Johan Sageryd <j@1616.se>
John Asmuth <jasmuth@gmail.com>
John Beisley <huin@google.com>
John C Barstow <jbowtie@amathaine.com>
John DeNero <denero@google.com>
John Dethridge <jcd@golang.org>
John Gibb <johngibb@gmail.com>
John Gilik <john@gilik.com>
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>
John Howard Palevich <jack.palevich@gmail.com>
John Jeffery <jeffery@sp.com.au>
John Jenkins <twdopeshaggy@gmail.com>
John Leidegren <john.leidegren@gmail.com>
John McCabe <john@johnmccabe.net>
John Moore <johnkenneth.moore@gmail.com>
John Newlin <jnewlin@google.com>
John Papandriopoulos <jpap.code@gmail.com>
John Potocny <johnp@vividcortex.com>
John R. Lenton <jlenton@gmail.com>
John Schnake <schnake.john@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
John Weldon <johnweldon4@gmail.com>
Johnny Luo <johnnyluo1980@gmail.com>
Jon Chen <jchen@justin.tv>
Jon Johnson <jonjohnson@google.com>
Jonas Bernoulli <jonas@bernoulli.it>
Jonathan Albrecht <jonathan.albrecht@ibm.com>
Jonathan Allie <jonallie@gmail.com>
Jonathan Amsterdam <jba@google.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.github.com>
Jonathan Feinberg <feinberg@gmail.com>
Kim Yongbin <kybinz@gmail.com>
Kir Kolyshkin <kolyshkin@gmail.com>
Kirill Korotaev <kirillx@gmail.com>
Kirill Motkov <Motkov.Kirill@gmail.com>
Kirill Smelkov <kirr@nexedi.com>
Kirill Tatchihin <kirabsuir@gmail.com>
Kirk Han <kirk91.han@gmail.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
KJ Tsanaktsidis <ktsanaktsidis@zendesk.com>
Klaus Post <klauspost@gmail.com>
Kodie Goodwin <kodiegoodwin@gmail.com>
Koichi Sirai <sirai@iijmio.com>
Koki Ide <niconegoto@yahoo.co.jp>
Koki Tomoshige <tomocy.dev@gmail.com>
Komu Wairagu <komuw05@gmail.com>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Koya IWAMURA <kiwamura0314@gmail.com>
Kris Kwiatkowski <kris@cloudflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@live.com>
Kristopher Watts <traetox@gmail.com>
Krzysztof Dbrowski <krzysztabro@live.com>
Kshitij Saraogi <kshitij.saraogi@gmail.com>
Kun <likunarmstrong@gmail.com>
Kunpei Sakai <namisu@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kush Patel <kush.patel@hootsuite.com>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@live.com>
Kyle Nusbaum <kyle@datadog.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiail@live.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrylo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lann@live.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lars Wiegman</td>
<td><a href="mailto:lars@namsral.com">lars@namsral.com</a></td>
</tr>
<tr>
<td>Larz Conwell</td>
<td><a href="mailto:larzconwell@gmail.com">larzconwell@gmail.com</a></td>
</tr>
<tr>
<td>Laurent Voisin</td>
<td><a href="mailto:lpvoisin@gmail.com">lpvoisin@gmail.com</a></td>
</tr>
<tr>
<td>Laurie Clark-Michalek</td>
<td><a href="mailto:laurie@qubit.com">laurie@qubit.com</a></td>
</tr>
<tr>
<td>LE Manh Cuong</td>
<td><a href="mailto:cuong.manhle.vn@gmail.com">cuong.manhle.vn@gmail.com</a></td>
</tr>
<tr>
<td>Lee Hinman</td>
<td><a href="mailto:hinman@gmail.com">hinman@gmail.com</a></td>
</tr>
<tr>
<td>Lee Packham</td>
<td><a href="mailto:lpackham@gmail.com">lpackham@gmail.com</a></td>
</tr>
<tr>
<td>Lehner Florian</td>
<td><a href="mailto:dev@der-flou.net">dev@der-flou.net</a></td>
</tr>
<tr>
<td>Leigh McCulloch</td>
<td><a href="mailto:leighmcc@gmail.com">leighmcc@gmail.com</a></td>
</tr>
<tr>
<td>Leo Antunes</td>
<td><a href="mailto:leo@costela.net">leo@costela.net</a></td>
</tr>
<tr>
<td>Leo Rudberg</td>
<td><a href="mailto:ljr@google.com">ljr@google.com</a></td>
</tr>
<tr>
<td>Leon Klingele</td>
<td><a href="mailto:git@leonklingele.de">git@leonklingele.de</a></td>
</tr>
<tr>
<td>Leonardo Comelli</td>
<td><a href="mailto:leonardo.comelli@gmail.com">leonardo.comelli@gmail.com</a></td>
</tr>
<tr>
<td>Leonel Quinteros</td>
<td><a href="mailto:leonel.quinteros@gmail.com">leonel.quinteros@gmail.com</a></td>
</tr>
<tr>
<td>Lev Shamardin</td>
<td><a href="mailto:shamardin@gmail.com">shamardin@gmail.com</a></td>
</tr>
<tr>
<td>Lewin Bormann</td>
<td><a href="mailto:lewin.bormann@gmail.com">lewin.bormann@gmail.com</a></td>
</tr>
<tr>
<td>Lewis Waddicor</td>
<td><a href="mailto:nemesismk2@gmail.com">nemesismk2@gmail.com</a></td>
</tr>
<tr>
<td>Liam Haworth</td>
<td><a href="mailto:liam@haworth.id.au">liam@haworth.id.au</a></td>
</tr>
<tr>
<td>Lily Chung</td>
<td><a href="mailto:lilithkchung@gmail.com">lilithkchung@gmail.com</a></td>
</tr>
<tr>
<td>Lingchao Xin</td>
<td><a href="mailto:douglarek@gmail.com">douglarek@gmail.com</a></td>
</tr>
<tr>
<td>Lion Yang</td>
<td><a href="mailto:lion@aosc.xyz">lion@aosc.xyz</a></td>
</tr>
<tr>
<td>Liz Rice</td>
<td><a href="mailto:liz@lizrice.com">liz@lizrice.com</a></td>
</tr>
<tr>
<td>Lloyd Dewolf</td>
<td><a href="mailto:foolswisdom@gmail.com">foolswisdom@gmail.com</a></td>
</tr>
<tr>
<td>Lorenz Bauer</td>
<td><a href="mailto:lmb@cloudflare.com">lmb@cloudflare.com</a></td>
</tr>
<tr>
<td>Lorenz Brun</td>
<td><a href="mailto:lorenz@brun.one">lorenz@brun.one</a></td>
</tr>
<tr>
<td>Lorenz Nickel</td>
<td><a href="mailto:mail@lorenznickel.de">mail@lorenznickel.de</a></td>
</tr>
<tr>
<td>Lorenzo Masini</td>
<td><a href="mailto:rugginoso@develer.com">rugginoso@develer.com</a></td>
</tr>
<tr>
<td>Lorenzo Stoakes</td>
<td><a href="mailto:lstoakes@gmail.com">lstoakes@gmail.com</a></td>
</tr>
<tr>
<td>Louis Kruger</td>
<td><a href="mailto:louisk@gmail.com">louisk@gmail.com</a></td>
</tr>
<tr>
<td>Luan Santos</td>
<td><a href="mailto:cfcluan@gmail.com">cfcluan@gmail.com</a></td>
</tr>
<tr>
<td>Lubomir I. Ivanov</td>
<td><a href="mailto:neolit123@gmail.com">neolit123@gmail.com</a></td>
</tr>
<tr>
<td>Luca Bruno</td>
<td><a href="mailto:luca.bruno@coreos.com">luca.bruno@coreos.com</a></td>
</tr>
<tr>
<td>Luca Greco</td>
<td><a href="mailto:luca.greco@alcacoop.it">luca.greco@alcacoop.it</a></td>
</tr>
<tr>
<td>Luca Spiller</td>
<td><a href="mailto:luca.spiller@gmail.com">luca.spiller@gmail.com</a></td>
</tr>
<tr>
<td>Lucas Bremgartner</td>
<td><a href="mailto:lucas.bremgartner@gmail.com">lucas.bremgartner@gmail.com</a></td>
</tr>
<tr>
<td>Lucas Clemente</td>
<td><a href="mailto:lclemente@gmail.com">lclemente@gmail.com</a></td>
</tr>
<tr>
<td>Lucien Stuker</td>
<td><a href="mailto:lucien.stuker@gmail.com">lucien.stuker@gmail.com</a></td>
</tr>
<tr>
<td>Lucio De Re</td>
<td><a href="mailto:lucio.dere@gmail.com">lucio.dere@gmail.com</a></td>
</tr>
<tr>
<td>Ludi Rehak</td>
<td><a href="mailto:ludi317@gmail.com">ludi317@gmail.com</a></td>
</tr>
<tr>
<td>Luigi Riefolo</td>
<td><a href="mailto:luigi.riefolo@gmail.com">luigi.riefolo@gmail.com</a></td>
</tr>
<tr>
<td>Luit van Drongelen</td>
<td><a href="mailto:luitvd@gmail.com">luitvd@gmail.com</a></td>
</tr>
<tr>
<td>Luka Zakrajek</td>
<td><a href="mailto:tr00.g33k@gmail.com">tr00.g33k@gmail.com</a></td>
</tr>
<tr>
<td>Luka Zitnik</td>
<td><a href="mailto:luka.zitnik@gmail.com">luka.zitnik@gmail.com</a></td>
</tr>
<tr>
<td>Lukasz Milewski</td>
<td><a href="mailto:lmmilewski@gmail.com">lmmilewski@gmail.com</a></td>
</tr>
<tr>
<td>Luke Champine</td>
<td><a href="mailto:luke.champine@gmail.com">luke.champine@gmail.com</a></td>
</tr>
<tr>
<td>Luke Curley</td>
<td><a href="mailto:qpingu@gmail.com">qpingu@gmail.com</a></td>
</tr>
<tr>
<td>Luke Granger-Brown</td>
<td><a href="mailto:git@lukegb.com">git@lukegb.com</a></td>
</tr>
<tr>
<td>Luke Young</td>
<td><a href="mailto:bored-engineer@users.noreply.github.com">bored-engineer@users.noreply.github.com</a></td>
</tr>
</tbody>
</table>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbiski <maciejd@google.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Mahdi Hosseini Moghaddam <seyed.mahdi.hosseini.moghaddam@ibm.com>
Maia Lee <maia.lee@leftfieldlabs.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishsmail@gmail.com>
Manoij Dayaram <platform-dev@moovweb.com> <manoij.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mrn@gmail.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <nmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanmiquel <marcsanmiquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Gazerro <gazerro@open2b.com>
Marco Hennings <marco.hennings@freiheit.com>
Marcus Weiner <marcus.weiner@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@graibio.com>
Marius Nuennerich <mun@google.com>
Mark Adams <mark@markadams.me>
Mark Buociarelli <mkbucc@gmail.com>
Mark Dain <mark@markdain.net>
Mark Glines <mark@glines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@google.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Asquino <martin.asquino@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoeffling <martin.hoeffling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <anty.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Masaya Watanabe <sfbgwm30@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulys <mgulyas86@gmail.com>
Matej Bao <matejbuco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czaplnski <czapkofan@gmail.com>
Matheus Alcantara <matheussilv97@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@gmail.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <mattwbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@google.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <mathew.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Drosdo.www <g1ran1q@gmail.com>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenik <maxsem.wiki@gmail.com>
Max Ushakov <ushmax@gmail.com>
Maxim Eryomenko <moeryomenko@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Pugachev <pugachev.mm@gmail.com>
Maxim Ushakov <ushakov@google.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Michal Cierniak <cierniak@google.com>
Michal Derkacz <ziutek@inet.pl>
Michal Franc <lam.michal.franc@gmail.com>
Michał Owicki <mlowicki@gmail.com>
Michał Pristas <michal.pristas@gmail.com>
Michał Rostecki <mrostecki@suse.de>
Michalis Kargakis <michaliskargakis@gmail.com>
Michel Lespinasse <walken@google.com>
Michele Di Pede <michele.di.pede@gmail.com>
Mickael Kerjean <mickael.kerjean@gmail.com>
Mickey Reiss <mickreyreiss@gmail.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Acero <acero@google.com>
Miguel Mendez <stxmendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <mikti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.leyb.org>
Mike Danese <mikedanese@google.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@google.com>
Mikhail Fesenko <proggga@gmail.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikio@mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <mikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milan Patel <bicelot3@gmail.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Mirko Hansen <baaazen@gmail.com>
Miroslav Genov <ingenov@gmail.com>
Misty De Meo <mistydeemo@gmail.com>
Mohamed Attahri <mohamed@attahri.com>
Mohit Agarwal <mohit@sdf.org>
Patrick Smith <pat42smith@gmail.com>
Patrik Lundin <patrik@sigterm.se>
Paul A Querna <paul.querna@gmail.com>
Paul Borman <borman@google.com>
Paul Boyd <boyd.paul2@gmail.com>
Paul Chang <paulchang@gmail.com>
Paul D. Weber <x0bdev@gmail.com>
Paul Davis <43160081+Pawls@users.noreply.github.com>
Paul E. Murphy <smurp@ibm.com>
Paul Forgey <paulf@tessier-ashpool.net>
Paul Hammond <paul@paulhammond.org>
Paul Hankin <paulhankin@gmail.com>
Paul Jolly <paul@myitcv.org.uk>
Paul Lalonde <paul.a.lalonde@gmail.com>
Paul M Furley <paul@paulfurley.com>
Paul Marks <pmarks@google.com>
Paul Meyer <paul.meyer@microsoft.com>
Paul Nasrat <pnae@piscuc.net>
Paul PISCUC <paul.piscuc@gmail.com>
Paul Querna <pquerna@apache.org>
Paul Rosania <paul.roßmann@apache.org>
Paul Ruest <paulruess@gmail.com>
Paul Sbarra <paulsbarra@gmail.com>
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
Paul Tyng <paul@paultyng.net>
Paul van Brouwershaven <paul@vanbrouwershaven.com>
Paul Wankadia <junykar@gmail.com>
Paulo Casaretto <paulo.casaretto@gmail.com>
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>
Paulo Gomes <paulogomes@gmail.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ymkins@gmail.com>
Pawel Knap <pawel.knap88@gmail.com>
Pawel Szczur <filemon@gmail.com>
Pawe Szulik <pawel.szulik@intel.com>
Pei Xian Chee <luciolas1991@gmail.com>
Pei-Ming Wu <p408865@gmail.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Petar Dambovaliev <petar.atanov.1987@gmail.com>
Petar Maymounkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@google.com>
Peter Conerly <pconerly@gmail.com>
Peter Dotchev <dotchev@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Pure White <wu.purewhite@gmail.com>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <silsh1022@gmail.com>
Quan Tran <ceed.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quey-Liang Kao <s101062801@m101.nthu.edu.tw>
Quim Muntal <quimmuntal@gmail.com>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afebion@gmail.com>
Radek Simko <rake.simko@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjecza@zalik.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Rahul Wadhwan <rahulwadhwan21@gmail.com>
Raj S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Raph Leven <raph@google.com>
Raphael Geronomi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Ravil Bikbulatov <weeellz12@gmail.com>
RaviTeja Pothana <ravi.tezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Raymond Kazlauskas <raima220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Rmy Oudompheng <oudomphe@phare.normalesup.org> <remyoudompheng@gmail.com>
Ren Ogaki <re.yu77777@gmail.com>
Rens Rikkerink <tlkkerens@users.noreply.github.com>
Rhys Hiltner <rhys@justin.tv>
Ricardo Padilha <ricardospadilha@gmail.com>
Ricardo Pechevuzinska Katz <ricardo.katz@serpro.gov.br>
Ricardo Seriani <ricardo.seriani@gmail.com>
Richard Barnes <rlb@ipv.sx>
Steve Mynott <steve.mynott@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeting <steve@stevestreeting.com>
Steve Traut <straut@google.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Maude <git@stevenmaude.co.uk>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Subham Sarkar <sarkar.subhams2@gmail.com>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@gmail.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaa.sundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sven Taute <sven.taute@gmail.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohi YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Tadeo Kondrak <me@tadeo.ca>
Taesu Pyo <pyotaesu@gmail.com>
Tai Le <letientai299@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takashi Mima <tks.m1205@gmail.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@gmail.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tams Gulcsi <tgulacsi78@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Qinyun <qingyunhua@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tristan Amini <tamini01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fn.1c>
Troels Thomsen <troels@thomsen.io>
Trong Bui <trong.buiquoc@gmail.com>
Trung Nguyen <trung.n.k@gmail.com>
Tsuji Daishiro <dram.dt.shonan@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuo@google.com>
Tyler Bui-Palsulich <tpalsulich@gmail.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tyson Andre <tysandre775@gmail.com>
Tzach Shabtay <tzachshabtay@gmail.com>
Tzu-Chiao Yeh <su3g4284zo6y7@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Udalov Max <re.udalov@gmail.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangiparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Utkarsh Dixit <53217283+utkarsh-extc@users.noreply.github.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Valentin Vidic <vvidic@valentin-vidic.from.hr>
Vee Zhang <veezhang@126.com> <vveezhang@gmail.com>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturaev <vearutop@gmail.com>
Victor Chudnovsky <vchudnov@google.com>
Victor Michel <victor@optimize.cloud>
Victor Vrantchan <vranchisean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@google.com>
Ville Skytt <ville.skytta@iki.fi>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vru Vasishekhar <vinutheraj@gmail.com>
Vish Subramanian <vish@google.com>
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* DNS resolver (dirmngr/dns.c)

**dns.c** - Recursive, Reentrant DNS Resolver.

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package license

import (
    "reflect"
    "testing"
    "time"

    "github.com/elastic/cloud-on-k8s/pkg/controller/common/version"
    "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
    "github.com/elastic/cloud-on-k8s/pkg/utils/chrono"
)

var (
    now        = time.Date(2019, 01, 31, 0, 0, 0, 0, time.UTC)
    gold       = client.ElasticsearchLicenseTypeGold
    platinum   = client.ElasticsearchLicenseTypePlatinum
    trial      = client.ElasticsearchLicenseTypeTrial
    enterprise = client.ElasticsearchLicenseTypeEnterprise
    expired    = client.License{
        ExpiryDateInMillis: chrono.MustMillis("2018-12-31"),
        StartDateInMillis:  chrono.MustMillis("2018-01-01"),
    }
    oneMonth = client.License{
        ExpiryDateInMillis: chrono.MustMillis("2019-02-28"),
        StartDateInMillis:  chrono.MustMillis("2019-01-01"),
    }
    twoMonth = client.License{
        ExpiryDateInMillis: chrono.MustMillis("2019-03-31"),
        StartDateInMillis:  chrono.MustMillis("2019-01-01"),
    }
    twelveMonth = client.License{
        ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
        StartDateInMillis:  chrono.MustMillis("2019-01-01"),
    }
)

func license(l client.License, t client.ElasticsearchLicenseType) client.License {
    l.Type = string(t)
    return l
}

func noopFilter(_ EnterpriseLicense) (bool, error) {
    return true, nil
}
func Test_bestMatchAt(t *testing.T) {

type args struct {
    licenses []EnterpriseLicense
    minVersion version.Version
}

tests := []struct {
    name     string
    args     args
    want     client.License
    wantFound bool
} {
    
    
    name:   "no result: no licenses",
    wantFound: false,
    
    name:   "no result: only expired enterprise license",
    args:   args{
        licenses: []EnterpriseLicense{
            License: LicenseSpec{
                ExpiryDateInMillis: chrono.MustMillis("2017-12-31"),
                StartDateInMillis:  chrono.MustMillis("2017-01-01"),
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            },
        },
    },
    wantFound: false,
    
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                    License: license(expired, platinum),
                },
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        },
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  wantFound: true,
},

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    },
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```go
Type:      LicenseTypeEnterpriseTrial,
},
},
},
},
},
want:      license(client.License{}, trial),
wantFound: true,
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Type:      LicenseTypeEnterprise,
Issuer:      "API",
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{License: license(twelveMonth, trial)},
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],
},
},
{
License: LicenseSpec{
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 StartDateInMillis: chrono.MustMillis("2019-01-01"),
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want: license(twelveMonth, platinum),
wantFound: true,
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args: args{
 licenses: [EnterpriseLicense{
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Type: LicenseTypeEnterpriseTrial,
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License: LicenseSpec{
 ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
 StartDateInMillis: chrono.MustMillis("2019-01-01"),
 Type: LicenseTypeEnterpriseTrial,
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License: LicenseSpec{
 ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
 StartDateInMillis: chrono.MustMillis("2019-01-01"),
 Type: LicenseTypeEnterpriseTrial,
 Issuer: "API",
 ClusterLicenses: [ElasticsearchLicense{
  License: license(twelveMonth, platinum),
},
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want: license(twelveMonth, platinum),
wantFound: true,
,
{
name: "success: longest valid platinum",}
args: args{
  licenses: []EnterpriseLicense{
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      License: LicenseSpec{
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        StartDateInMillis: chrono.MustMillis("2019-01-01"),
        ClusterLicenses: []ElasticsearchLicense{
          {License: license(oneMonth, platinum)},
          {License: license(twoMonth, platinum)},
          {License: license(twelveMonth, platinum)}
        },
        want: license(twelveMonth, platinum),
        wantFound: true,
      }
    
    name: "success: mixed platinum/enterprise pre 7.8.1",
    args: args{
      licenses: []EnterpriseLicense{
        {
          License: LicenseSpec{
            ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
            StartDateInMillis: chrono.MustMillis("2019-01-01"),
            ClusterLicenses: []ElasticsearchLicense{
              {License: license(oneMonth, enterprise)},
              {License: license(twoMonth, platinum)},
              {License: license(twelveMonth, platinum)}
            },
            want: license(twelveMonth, platinum),
            wantFound: true,
          }
        
        name: "success: mixed platinum/enterprise post 7.8.1",
        args: args{
          minVersion: version.MustParse("7.8.1"),
          licenses: []EnterpriseLicense{
            {
              License: LicenseSpec{
                ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
                StartDateInMillis: chrono.MustMillis("2019-01-01"),
                ClusterLicenses: []ElasticsearchLicense{

```
{License: license(oneMonth, enterprise)},
{License: license(twoMonth, platinum)},
{License: license(twelveMonth, platinum)},

want: license(oneMonth, enterprise),
wantFound: true,

{name: "success: longest valid from multiple enterprise licenses",
args: args{
licenses: []EnterpriseLicense{

}{License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2019-03-31"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
ClusterLicenses: []ElasticsearchLicense{
{License: license(oneMonth, platinum)},
{License: license(twoMonth, platinum)},

}

}{License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
ClusterLicenses: []ElasticsearchLicense{
{License: license(twelveMonth, platinum)},

}

want: license(twelveMonth, platinum),
wantFound: true,

{name: "success: best license",
args: args{
licenses: []EnterpriseLicense{

}{License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2019-03-31"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
ClusterLicenses: []ElasticsearchLicense{

}
{License: license(oneMonth, gold)},
{License: license(twoMonth, platinum)},
,
,
,

License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-31"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
ClusterLicenses: []ElasticsearchLicense{
{License: license(twoMonth, platinum)},
{License: license(twelveMonth, gold)}},
,
,
,
,
,
want: license(twoMonth, platinum),
wantFound: true,
},
}

for _, tt := range tests {
t.Run(tt.name, func(t *testing.T) {
  got, _, found := bestMatchAt(now, &tt.args.minVersion, tt.args.licenses, noopFilter)
  if tt.wantFound != found {
    t.Errorf("bestMatchAt() found = %v, want %v", found, tt.wantFound)
  }
  if !reflect.DeepEqual(got, tt.want) {
    t.Errorf("bestMatchAt() = %v, want %v", got, tt.want)
  }
})
}

func Test_filterValidForType(t *testing.T) {
type args struct {
  minVersion version.Version
  licenses  []EnterpriseLicense
}
tests := []struct {
  name string
  args args
  want []licenseWithTimeLeft
}{{
  name: "no licenses",
  args: args{},
  want: []licenseWithTimeLeft{},
}{
name: "single match",
args: args{
licenses: []EnterpriseLicense{

License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-01"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
ClusterLicenses: []ElasticsearchLicense{

License: client.License{
Type: string(client.ElasticsearchLicenseTypePlatinum),
ExpiryDateInMillis: chrono.MustMillis("2019-02-01"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
},
},
},
}

want: []licenseWithTimeLeft{

license: client.License{
Type: string(client.ElasticsearchLicenseTypePlatinum),
ExpiryDateInMillis: chrono.MustMillis("2019-02-01"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
},
remaining: 24 * time.Hour,
},
},

},

name: "matching is version specific: pre-7.8.1",
args: args{
minVersion: version.MustParse("7.5.0"),
licenses: []EnterpriseLicense{

License: LicenseSpec{
ExpiryDateInMillis: chrono.MustMillis("2020-01-01"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
ClusterLicenses: []ElasticsearchLicense{

License: client.License{
Type: string(client.ElasticsearchLicenseTypeEnterprise),
ExpiryDateInMillis: chrono.MustMillis("2019-02-01"),
StartDateInMillis: chrono.MustMillis("2019-01-01"),
}
want: []licenseWithTimeLeft{}
}

name: "matching is version specific: post-7.8.1",
args: args{
  minVersion: version.MustParse("7.8.1"),
  licenses: []EnterpriseLicense{
    License: LicenseSpec{
      ExpiryDateInMillis: chrono.MustMillis("2020-01-01"),
      StartDateInMillis: chrono.MustMillis("2019-01-01"),
      ClusterLicenses: []ElasticsearchLicense{
        License: client.License{
          Type: string(client.ElasticsearchLicenseTypeEnterprise),
          ExpiryDateInMillis: chrono.MustMillis("2019-02-01"),
          StartDateInMillis: chrono.MustMillis("2019-01-01"),
        },
      },
    },
    remaining: 24 * time.Hour,
  },
},
}
want: []licenseWithTimeLeft{
  license: client.License{
    Type: string(client.ElasticsearchLicenseTypeEnterprise),
    ExpiryDateInMillis: chrono.MustMillis("2019-02-01"),
    StartDateInMillis: chrono.MustMillis("2019-01-01"),
  },
  remaining: 24 * time.Hour,
},
}
}

for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    if got := filterValidForType(now, &tt.args.minVersion, tt.args.licenses, noopFilter); !reflect.DeepEqual(got, tt.want) {
      t.Errorf("filterValidForType expected %v, got %v", tt.want, got)
    }
  })
}
package license

import (  
    "fmt"
    "math"
    "reflect"
    "strconv"
    "time"

    "github.com/elastic/cloud-on-k8s/pkg/controller/common"
    "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"
    "github.com/elastic/cloud-on-k8s/pkg/controller/common/reconciler"
    "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
    "github.com/elastic/cloud-on-k8s/pkg/utils/metrics"
    "github.com/prometheus/client_golang/prometheus"
    "k8s.io/api/core/v1"
    "k8s.io/apimachinery/pkg/api/resource"
    "k8s.io/apimachinery/pkg/apis/meta/v1"
    "k8s.io/apimachinery/pkg/types"
)

const (  
    // defaultOperatorLicenseLevel is the default license level when no operator license is installed
    defaultOperatorLicenseLevel = "basic"

    // LicensingCfgMapName is the name of the config map used to store licensing information
    LicensingCfgMapName = "elastic-licensing"

    // Type represents the Elastic usage type used to mark the config map that stores licensing information
    Type = "elastic-usage"
)

// LicensingInfo represents information about the operator license including the total memory of all Elastic managed
// components

type LicensingInfo struct {  
    Timestamp                  string
    EckLicenseLevel            string
    TotalManagedMemory         float64
    MaxEnterpriseResourceUnits int64
    EnterpriseResourceUnits    int64
}

// toMap transforms a LicensingInfo to a map of string, in order to fill in the data of a config map
func (li LicensingInfo) toMap() map[string]string {
    m := map[string]string{
        "timestamp": li.Timestamp,
        "eck_license_level": li.EckLicenseLevel,
        "total_managed_memory": fmt.Sprintf("%0.2fGB", li.TotalManagedMemory),
        "enterprise_resource_units": strconv.FormatInt(li.EnterpriseResourceUnits, 10),
    }
    if li.MaxEnterpriseResourceUnits > 0 {
        m["max_enterprise_resource_units"] = strconv.FormatInt(li.MaxEnterpriseResourceUnits, 10)
    }
    return m
}

func (li LicensingInfo) ReportAsMetrics() {
    labels := prometheus.Labels{metrics.LicenseLevelLabel: li.EckLicenseLevel}
    metrics.LicensingTotalMemoryGauge.With(labels).Set(li.TotalManagedMemory)
    metrics.LicensingTotalERUGauge.With(labels).Set(float64(li.EnterpriseResourceUnits))
    if li.MaxEnterpriseResourceUnits > 0 {
        metrics.LicensingMaxERUGauge.With(labels).Set(float64(li.MaxEnterpriseResourceUnits))
    }
}

// LicensingResolver resolves the licensing information of the operator
type LicensingResolver struct {
    operatorNs string
    client     k8s.Client
}

// ToInfo returns licensing information given the total memory of all Elastic managed components
func (r LicensingResolver) ToInfo(totalMemory resource.Quantity) (LicensingInfo, error) {
    operatorLicense, err := r.getOperatorLicense()
    if err != nil {
        return LicensingInfo{}, err
    }
    licensingInfo := LicensingInfo{
        Timestamp: time.Now().Format(time.RFC3339),
        EckLicenseLevel: r.getOperatorLicenseLevel(operatorLicense),
        TotalManagedMemory: inGB(totalMemory),
        EnterpriseResourceUnits: inEnterpriseResourceUnits(totalMemory),
    }
    if maxERUs := r.getMaxEnterpriseResourceUnits(operatorLicense); maxERUs > 0 {
        licensingInfo.MaxEnterpriseResourceUnits = maxERUs
    }
    return licensingInfo, nil
}
func (r LicensingResolver) Save(info LicensingInfo) error {
    log.V(1).Info("Saving", "namespace", r.operatorNs, "configmap_name", LicensingCfgMapName, "license_info", info)
    nsn := types.NamespacedName{
        Namespace: r.operatorNs,
        Name:      LicensingCfgMapName,
    }
    expected := corev1.ConfigMap{
        ObjectMeta: metav1.ObjectMeta{
            Namespace: nsn.Namespace,
            Name:      nsn.Name,
            Labels: map[string]string{
                common.TypeLabelName: Type,
            },
        },
        Data: info.toMap(),
    }
    reconciled := &corev1.ConfigMap{}
    return reconciler.ReconcileResource(reconciler.Params{
        Client:     r.client,
        Expected:   &expected,
        Reconciled: reconciled,
        NeedsUpdate: func() bool {
        },
        UpdateReconciled: func() {
            expected.DeepCopyInto(reconciled)
        },
    })
}

// getOperatorLicense gets the operator license.
func (r LicensingResolver) getOperatorLicense() (*license.EnterpriseLicense, error) {
    checker := license.NewLicenseChecker(r.client, r.operatorNs)
    return checker.CurrentEnterpriseLicense()
}

// getOperatorLicenseLevel gets the level of the operator license.
// If no license is given, the defaultOperatorLicenseLevel is returned.
func (r LicensingResolver) getOperatorLicenseLevel(lic *license.EnterpriseLicense) string {
    if lic == nil {
        return defaultOperatorLicenseLevel
    }
    return string(lic.License.Type)
}

// getMaxEnterpriseResourceUnits returns the maximum of enterprise resources units that is allowed for a given license.
// For old style enterprise orchestration licenses which only have max_instances, the maximum of enterprise resources
// units is derived by dividing max_instances by 2.
func (r LicensingResolver) getMaxEnterpriseResourceUnits(lic *license.EnterpriseLicense) int64 {
    if lic == nil {
        return 0
    }

    maxERUs := lic.License.MaxResourceUnits
    if maxERUs == 0 {
        maxERUs = lic.License.MaxInstances / 2
    }

    return int64(maxERUs)
}

// inGB converts a resource.Quantity in gigabytes
func inGB(q resource.Quantity) float64 {
    // divide the value (in bytes) per 1 billion (1GB)
    return float64(q.Value()) / 1000000000
}

// inEnterpriseResourceUnits converts a resource.Quantity to Elastic Enterprise resource units
func inEnterpriseResourceUnits(q resource.Quantity) int64 {
    // divide by the value (in bytes) per 64 billion (64 GB)
    eru := float64(q.Value()) / 64000000000
    // round to the nearest superior integer
    return int64(math.Ceil(eru))
}

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package license

import {
    "github.com/elastic/cloud-on-k8s/pkg/controller/common"
    corev1 "k8s.io/api/core/v1"
}
func isLicenseType(secret corev1.Secret, licenseType OperatorLicenseType) bool {
// is it a license at all (but be lenient if user omitted label)?
baseType, hasLabel := secret.Labels[common.TypeLabelName]
if hasLabel && baseType != Type {
    return false
}
// required to be set by user to detect license
return secret.Labels[LicenseLabelType] == string(licenseType)
}

// IsEnterpriseTrial returns true if the given secret is a wrapper for an Enterprise Trial license
func IsEnterpriseTrial(secret corev1.Secret) bool {
// we need to support legacy trial license secrets for backwards compatibility
return isLicenseType(secret, LicenseTypeEnterpriseTrial) || isLicenseType(secret, LicenseTypeLegacyTrial)
}

// IsOperatorLicense returns true if the given secret is a wrapper for an operator license.
func IsOperatorLicense(secret corev1.Secret) bool {
scope, hasLabel := secret.Labels[LicenseLabelScope]
return hasLabel && scope == string(LicenseScopeOperator)
}

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package license
import
  "bytes"
  "crypto/aes"
  "crypto/cipher"
  "crypto/rand"
)

customPadding = 20

var
  // aesKey is effectively constant
  // see https://github.com/elastic/elasticsearch/blob/a4199af58b8c5ab4757a45248672e0233978b208/x-pack/plugin/core/src/main/java/org/elasticsearch/license/CryptUtils.java#L162-L179
  aesKey = []byte("\x76\x7A\x57\x69\x68\x4A\x4A\x4B\x6E\x30\x72\x6B\x61\x69\x50\x2B")
)

// encryptWithAESECB should be identical to what is called v3 license key
// encryption see https://github.com/elastic/elasticsearch/blob/a4199af58b8c5ab4757a45248672e0233978b208/x-pack/plugin/core/src/main/java/org/elasticsearch/license/CryptUtils.java#L142-L180
func encryptWithAESECB(plaintext []byte) ([]byte, error) {
  padded := pkcs5Pad(customPad(plaintext))
  ciphertext := make([]byte, len(padded))
  block, err := aes.NewCipher(aesKey)
  if err != nil {
    return nil, err
  }
  ecb(block, ciphertext, padded)
  return ciphertext, nil
}

func ecb(block cipher.Block, dst, src []byte) {
  // ECB encrypts each block independently
  https://en.wikipedia.org/wiki/Block_cipher_mode_of_operation#Electronic_codebook_(ECB)
  for len(src) > 0 {
    block.Encrypt(dst, src[:block.BlockSize()])
    src = src[block.BlockSize():] //nolint:wastedassign
  }
}

// customPad see https://github.com/elastic/elasticsearch/blob/a4199af58b8c5ab4757a45248672e0233978b208/x-pack/plugin/core/src/main/java/org/elasticsearch/license/CryptUtils.java#L212-L236
func customPad(data []byte) []byte {
  if len(data) >= customPadding {
    return append(data, 1)
package license

import {
    "crypto/rand"
    "crypto/rsa"
    "crypto/x509"
    "errors"
    "fmt"
    "time"

    "github.com/elastic/cloud-on-k8s/pkg/utils/chrono"
    pkgerrors "github.com/pkg/errors"
    corev1 "k8s.io/api/core/v1"
    metav1 "k8s.io/api/machine/pkg/apis/meta/v1"
    "k8s.io/api/machine/pkg/types"
    "k8s.io/api/machine/pkg/util/uuid"
"
)

const {
    ECKLicenseIssuer = "Elastic k8s operator"

    TrialStatusSecretKey = "trial-status"
    TrialPubkeyKey = "pubkey"
    TrialActivationKey = "in-trial-activation"

    TrialLicenseSecretName = "trial.k8s.elastic.co/secret-name" //nolint:gosec
    TrialLicenseSecretNamespace = "trial.k8s.elastic.co/secret-namespace" //nolint:gosec
}

// TrialState captures the in-memory representation of the trial status.
type TrialState struct {
    privateKey *rsa.PrivateKey
    publicKey  *rsa.PublicKey
}

// NewTrialState creates a new trial state based on a new RSA key pair.
func NewTrialState() (TrialState, error) {
    key, err := newTrialKey()
    if err != nil {
        return TrialState{}, err
    }
    return TrialState{
        privateKey: key,
        publicKey: &key.PublicKey,
    }, nil
}

// NewTrialStateFromStatus reconstructs trial state from a trial status secret.
func NewTrialStateFromStatus(trialStatus corev1.Secret) (TrialState, error) {
    // reinstate pubkey from status secret e.g. after operator restart
    pubKeyBytes := trialStatus.Data[TrialPubkeyKey]
    key, err := ParsePubKey(pubKeyBytes)
    if err != nil {
        return TrialState{}, err
    }
    return TrialState{
        publicKey: key,
    }, nil
}

// IsTrialStarted returns true if a trial has been successfully started at some point in the past.
func (tk *TrialState) IsTrialStarted() bool {
    return tk.publicKey != nil && tk.privateKey == nil
}

// IsEmpty returns true on an empty state struct.
func (tk *TrialState) IsEmpty() bool {
    return tk.privateKey == nil && tk.publicKey == nil
}

// InitTrialLicense initialises and signs the given license based on the current state.
func (tk *TrialState) InitTrialLicense(l *EnterpriseLicense) error {
    if tk.privateKey == nil {
        return errors.New("trial has already been activated")
    }
    if l == nil {
        return errors.New("license is nil")
    }
func CompleteTrialActivation() bool {
    if tk.privateKey == nil {
        return false
    }
    tk.privateKey = nil
    return true
}

func LicenseVerifier() *Verifier {
    return &Verifier{PublicKey: tk.publicKey}
}

func ExpectedTrialStatus(operatorNamespace string, license types.NamespacedName, state TrialState) (corev1.Secret, error) {
    if state.IsEmpty() {
        return corev1.Secret{}, errors.New("cannot create trial status from uninitialised trial state")
    }
    pubKeyBytes, err := x509.MarshalPKIXPublicKey(state.publicKey)
    if err != nil {
        return corev1.Secret{}, err
    }
    secret := corev1.Secret{
        ObjectMeta: metav1.ObjectMeta{
            Namespace: operatorNamespace,
            Name:     TrialStatusSecretKey,
            Annotations: map[string]string{
                TrialLicenseSecretName:     license.Name,
            },
        }
    }
    return secret, nil
}
TrialLicenseSecretNamespace: license.Namespace,
},
},
Data: map[string][]byte{
TrialPubkeyKey: pubkeyBytes,
},
}
if !state.IsTrialStarted() {
    secret.Data[TrialActivationKey] = []byte("true")
}
return secret, nil
}

func newTrialKey() (*rsa.PrivateKey, error) {
    rnd := rand.Reader
    trialKey, err := rsa.GenerateKey(rnd, 2048)
    if err != nil {
        return nil, fmt.Errorf("while generating trial key %w", err)
    }
    return trialKey, nil
}

// populateTrialLicense adds missing fields to a trial license.
func populateTrialLicense(l *EnterpriseLicense) error {
    if !.IsTrial() {
        return pkgerrors.Errorf("%s for %s is not a trial license", l.License.UID, l.License.IssuedTo)
    }
    if l.License.Issuer == "" {
        l.License.Issuer = ECKLicenseIssuer
    }
    if l.License.IssuedTo == "" {
        l.License.IssuedTo = "Unknown"
    }
    if l.License.UID == "" {
        l.License.UID = string(uuid.NewUUID())
    }
    if l.License.StartDateInMillis == 0 || l.License.ExpiryDateInMillis == 0 {
        setStartAndExpiry(l, time.Now())
    }
    return nil
}

// setStartAndExpiry sets the issue, start and end dates for a trial.
func setStartAndExpiry(l *EnterpriseLicense, from time.Time) {
    l.License.StartDateInMillis = chrono.ToMillis(from)
    l.License.IssueDateInMillis = l.License.StartDateInMillis
    l.License.ExpiryDateInMillis = chrono.ToMillis(from.Add(24 * time.Hour * 30))
}
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package license

import (
    "encoding/json"
    "io/ioutil"
    "testing"
    "time"

    controllerscheme "github.com/elastic/cloud-on-k8s/pkg/controller/common/scheme"
    "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
    "github.com/elastic/cloud-on-k8s/pkg/utils/chrono"
    "github.com/go-test/deep"
    "github.com/stretchr/testify/require"
)

func TestLicense_IsValidAt(t *testing.T) {
    now := time.Date(2019, 01, 31, 0, 0, 0, 0, time.UTC)
    type fields struct {
        startMillis int64
        expiryMillis int64
    }
    type args struct {

    }
offset time.Duration
}
tests := []struct {
    name   string
    fields fields
    args   args
    want   bool
} {
    name: "valid license - starts now",
    fields: fields{
        startMillis: chrono.MustMillis("2019-01-31"),
        expiryMillis: chrono.MustMillis("2019-12-31"),
    },
    want: true,
},

{name: "valid license - no offset",
fields: fields{
    startMillis: chrono.MustMillis("2019-01-01"),
    expiryMillis: chrono.MustMillis("2019-12-31"),
},
want: true,
},

{name: "valid license - with offset",
fields: fields{
    startMillis: chrono.MustMillis("2019-01-01"),
    expiryMillis: chrono.MustMillis("2019-12-31"),
},
args: args{
    offset: 30 * 24 * time.Hour,
},
want: true,
},

{name: "invalid license - because of offset",
fields: fields{
    startMillis: chrono.MustMillis("2019-01-30"),
    expiryMillis: chrono.MustMillis("2019-02-28"),
},
args: args{
    offset: 90 * 24 * time.Hour,
},
want: false,
},

{name: "invalid license - expired",}
fields: fields{
    startMillis: chrono.MustMillis("2018-01-01"),
    expiryMillis: chrono.MustMillis("2019-01-01"),
},
want: false,
}

for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        l := EnterpriseLicense{
            License: LicenseSpec{
                ExpiryDateInMillis: tt.fields.expiryMillis,
                StartDateInMillis: tt.fields.startMillis,
            },
        }
        if got := l.IsValid(now.Add(tt.args.offset)); got != tt.want {
            t.Errorf("ClusterLicense.IsValid() = %v, want %v", got, tt.want)
        }
    })
}

var expectedLicenseSpec = EnterpriseLicense{
    License: LicenseSpec{
        UID:               "840F0DB6-1906-452E-98C7-6F94E6012CD7",
        IssueDateInMillis: 1548115200000,
        ExpiryDateInMillis: 1561247999999,
        IssuedTo:           "test org",
        Issuer:             "test issuer",
        StartDateInMillis: 1548115200000,
        Type:               "enterprise",
        MaxInstances:       40,
        Signature:          "test signature",
        ClusterLicenses: []ElasticsearchLicense{
            {
                License: client.License{
                    UID:               "73117B2A-FEEA-4FEC-B8F6-49D764E9F1DA",
                    IssueDateInMillis: 1548115200000,
                    ExpiryDateInMillis: 1561247999999,
                    IssuedTo:           "test org",
                    Issuer:             "test issuer",
                    StartDateInMillis: 1548115200000,
                    MaxNodes:           100,
                    Type:               "gold",
                    Signature:          "test signature gold",
                },
            },
        }
    }
}
var expectedLicenseSpecV4 = EnterpriseLicense{
  License: LicenseSpec{
    UID: "840F0DB6-1906-452E-98C7-6F94E6012CD7",
    IssueDateInMillis: 1548115200000,
    ExpiryDateInMillis: 1561247999999,
    IssuedTo: "test org",
    Issuer: "test issuer",
    StartDateInMillis: 1548115200000,
    Type: "enterprise",
    MaxResourceUnits: 20,
    Signature: "test signature",
    ClusterLicenses: []ElasticsearchLicense{
      License: client.License{
        UID: "73117B2A-FEEA-4FEC-B8F6-49D764E9F1DA",
        IssueDateInMillis: 1548115200000,
        ExpiryDateInMillis: 1561247999999,
        IssuedTo: "test org",
        Issuer: "test issuer",
        StartDateInMillis: 1548115200000,
        Type: "platinum",
        MaxNodes: 100,
        Signature: "test signature platinum",
      },
      License: client.License{
        UID: "57E312E2-6EA0-49D0-8E65-AA5017742ACF",
        IssueDateInMillis: 1548115200000,
        ExpiryDateInMillis: 1561247999999,
        IssuedTo: "test org",
        Issuer: "test issuer",
        StartDateInMillis: 1548115200000,
        Type: "platinum",
        MaxNodes: 100,
        Signature: "test signature platinum",
      },
    }
  }
}
func Test_unmarshalModel(t *testing.T) {
    controllerscheme.SetupScheme()
    type args struct {
        licenseFile string
    }
    tests := []struct {
        name     string
        args     args
        wantErr  bool
        assertion func(el EnterpriseLicense)
    }{
        name: "invalid input: FAIL",
        args: args{
            licenseFile: "testdata/test-error.json",
        },
        wantErr: true,
    },
    name: "valid input: license v3 OK",
    args: args{
        licenseFile: "testdata/test-license.json",
    },
    wantErr: false,
    assertion: func(el EnterpriseLicense) {
        if diff := deep.Equal(el, expectedLicenseSpec); diff != nil {
            t.Error(diff)
        }
    },
    name: "valid input: license v4 OK",
    args: args{
        licenseFile: "testdata/test-license-v4.json",
    },
    wantErr: false,
    assertion: func(el EnterpriseLicense) {
        if diff := deep.Equal(el, expectedLicenseSpecV4); diff != nil {
t.Error(diff)
}

for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        var license EnterpriseLicense
        bytes, err := ioutil.ReadFile(tt.args.licenseFile)
        require.NoError(t, err)
        if err := json.Unmarshal(bytes, &license); (err != nil) != tt.wantErr {
            t.Errorf("extractTransformLoadLicense() error = %v, wantErr %v", err, tt.wantErr)
        }
        if tt.assertion != nil {
            tt.assertion(license)
        }
    })
}

func TestEnterpriseLicense_IsECKManagedTrial(t *testing.T) {
    type fields struct {
        License LicenseSpec
    }
    tests := []struct {
        name   string
        fields fields
        want   bool
    }{
        {
            name: "true: type trial and expected issuer ",
            fields: fields{
                License: LicenseSpec{
                    Type: LicenseTypeEnterpriseTrial,
                    Issuer: ECKLicenseIssuer,
                },
                want: true,
            },
            {
                name: "true: type legacy trial and expected issuer",
                fields: fields{
                    License: LicenseSpec{
                        Type: LicenseTypeLegacyTrial,
                        Issuer: ECKLicenseIssuer,
                    },
                    want: true,
                },
            }
        }
    }
}
want: true,
},
{
name: "false: wrong type",
fields: fields{
License: LicenseSpec{
Type: LicenseTypeEnterprise,
Issuer: ECKLicenseIssuer,
},
},
want: false,
},
{
name: "false: wrong issuer",
fields: fields{
License: LicenseSpec{
Type: LicenseTypeEnterpriseTrial,
Issuer: "API",
},
},
want: false,
},
for _, tt := range tests {

t.Run(tt.name, func(t *testing.T) {
    l := EnterpriseLicense{
        License: tt.fields.License,
    }
    if got := l.IsECKManagedTrial(); got != tt.want {
        t.Errorf("IsECKManagedTrial() = %v, want %v", got, tt.want)
    }
})
}

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package license

import (  
    "encoding/json"
    "github.com/pkg/errors"
)

func ParseEnterpriseLicense(raw map[string][]byte) (EnterpriseLicense, error) {
    var license EnterpriseLicense
bytes, err := FetchLicenseData(raw)
if err != nil {
    return license, err
}

err = json.Unmarshal(bytes, &license)
if err != nil {
    return license, errors.Wrapf(err, "license cannot be unmarshalled")
}

return license, nil

func FetchLicenseData(raw map[string][]byte) ([]byte, error) {
    if len(raw) != 1 {
        return nil, errors.New("license secret needs to contain exactly one file with any name")
    }

    var result []byte
    // will only loop once due to the check above
    for _, bytes := range raw {
        result = bytes
    }

    return result, nil
}

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package license

import {
    "context"
    "encoding/json"
    "fmt"

    esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
    commonlicense "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"
    esclient "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
    "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
    ulog "github.com/elastic/cloud-on-k8s/pkg/utils/log"
    pkgerrors "github.com/pkg/errors"
    corev1 "k8s.io/api/core/v1"
    apierrors "k8s.io/apimachinery/pkg/api/errors"
    "k8s.io/apimachinery/pkg/api/errors"
    "k8s.io/apimachinery/pkg/types"
}
var log = ulog.Log.WithName("elasticsearch-controller")

// isTrial returns true if an Elasticsearch license is of the trial type
func isTrial(l esclient.License) bool {
    return l.Type == string(esclient.ElasticsearchLicenseTypeTrial)
}

// isBasic returns true if an Elasticsearch license is of the basic type
func isBasic(l esclient.License) bool {
    return l.Type == string(esclient.ElasticsearchLicenseTypeBasic)
}

func applyLinkedLicense(
    ctx context.Context,
    c k8s.Client,
    esCluster types.NamespacedName,
    updater esclient.LicenseClient,
) error {
    // get the current license
    current, err := updater.GetLicense(ctx)
    if err != nil {
        return fmt.Errorf("while getting current license level %w", err)
    }

    // get the expected license
    // the underlying assumption here is that either a user or a
    // license controller has created a cluster license in the
    // namespace of this cluster following the cluster-license naming
    // convention
    var license corev1.Secret
    err = c.Get(context.Background(),
        types.NamespacedName{
            Namespace: esCluster.Namespace,
            Name:      esv1.LicenseSecretName(esCluster.Name),
        },
        &license,
    )
    if err != nil && !apierrors.IsNotFound(err) {
        return err
    }
    if err != nil && apierrors.IsNotFound(err) {
        // no license expected, let's look at the current cluster license
        switch {
        case isBasic(current):
            // nothing to do
            return nil
        case isTrial(current):
            // do something
        }
    }

    // do something with the license
    return nil
}
Elasticsearch reports a trial license, but there's no ECK enterprise trial requested. This can be the case if:
- an ECK trial was started previously, then stopped (secret removed)
- the user manually started a trial at the stack level (eg. by clicking a button in Kibana when trying to access a commercial feature). While this is not a supported use case, we tolerate it to avoid a bad user experience because trials can only be started once.

return nil

default:
// revert the current license to basic
return startBasic(ctx, updater)
}

bytes, err := commonlicense.FetchLicenseData(license.Data)
if err != nil {
return err
}

var desired esclient.License
err = json.Unmarshal(bytes, &desired)
if err != nil {
return pkgerrors.Wrap(err, "no valid license found in license secret")
}
return updateLicense(ctx, esCluster, updater, current, desired)

func startBasic(ctx context.Context, updater esclient.LicenseClient) error {
    _, err := updater.StartBasic(ctx)
    if err != nil && esclient.IsForbidden(err) {
// ES returns 403 + acknowledged: true (which we don't parse in case of error) if we are already in basic mode
        return nil
    }
    return pkgerrors.Wrap(err, "failed to revert to basic")
}

// updateLicense make the call to Elasticsearch to set the license. This function exists mainly to facilitate testing.
func updateLicense(
    ctx context.Context,
esCluster types.NamespacedName,
    updater esclient.LicenseClient,
current esclient.License,
desired esclient.License,
) error {
    if current.UID == desired.UID || (isTrial(current) && current.Type == desired.Type) {
        return nil // we are done already applied
    }
request := esclient.LicenseUpdateRequest{
    Licenses: []esclient.License{
        desired,
    },
}

if isTrial(desired) {
    return pkgerrors.Wrap(startTrial(ctx, updater, esCluster), "failed to start trial")
}

response, err := updater.UpdateLicense(ctx, request)
if err != nil {
    return pkgerrors.Wrap(err, fmt.Sprintf("failed to update license to %s", desired.Type))
}
if !response.IsSuccess() {
    return pkgerrors.Errorf("failed to apply license: %s", response.LicenseStatus)
}
return nil

// startTrial starts the trial license after checking that the trial is not yet activated by directly hitting the
// Elasticsearch API.
func startTrial(ctx context.Context, c esclient.LicenseClient, esCluster types.NamespacedName) error {
    response, err := c.StartTrial(ctx)
    if err != nil && esclient.IsForbidden(err) {
        log.Info("failed to start trial most likely because trial was activated previously",
            "err", err.Error(),
            "namespace", esCluster.Namespace,
            "name", esCluster.Name,
        )
        return nil
    }
    if response.IsSuccess() {
        log.Info("Elasticsearch trial license activated",
            "namespace", esCluster.Namespace,
            "name", esCluster.Name,
        )
    }
    return err
}

---
apiVersion: elasticsearch.k8s.elastic.co/v1
kind: Elasticsearch
metadata:
    name: test-elasticsearch
spec:
    version: 7.9.0
nodeSets:
- name: master-a
count: 1
podTemplate:
  spec:
  containers:
  - name: elasticsearch
    env:
    - name: ES_JAVA_OPTS
      value: "-Xms4g -Xmx4g"
    resources:
    requests:
      memory: 8Gi
      cpu: 2
    limits:
      memory: 8Gi
- name: master-b
count: 1
podTemplate:
  spec:
  containers:
  - name: elasticsearch
    env:
    - name: ES_JAVA_OPTS
      value: "-Xms4g -Xmx4g"
    resources:
    requests:
      memory: 8Gi
      cpu: 1
    limits:
      memory: 8Gi
- name: master-c
count: 1
podTemplate:
  spec:
  containers:
  - name: elasticsearch
    env:
    - name: ES_JAVA_OPTS
      value: "-Xms4g -Xmx4g"
    resources:
    requests:
      memory: 8Gi
      cpu: 1
    limits:
      memory: 8Gi
- name: hot-a
count: 3
podTemplate:
spec:
  containers:
  - name: elasticsearch
    env:
      - name: ES_JAVA_OPTS
        value: "-Xms16g -Xmx16g"
    - name: warm-a
      count: 3

podTemplate:
spec:
  containers:
  - name: elasticsearch
    env:
      - name: ES_JAVA_OPTS
        value: "-Xms32g -Xmx32g"
  resources:
    requests:
      memory: 58Gi
      cpu: 4
    limits:
      memory: 58Gi

---
apiVersion: kibana.k8s.elastic.co/v1
kind: Kibana
metadata:
  name: test-kibana-1
spec:
  version: 7.9.0
  count: 1
podTemplate:
spec:
  containers:
  - name: kibana
    resources:
      requests:
        memory: 4Gi
      limits:
        memory: 4Gi

---
apiVersion: kibana.k8s.elastic.co/v1
kind: Kibana
metadata:
  name: test-kibana-2
spec:
  version: 7.9.0
  count: 1
podTemplate:
spec:
containers:
  - name: kibana
    env:
      - name: NODE_OPTIONS
        value: "--max-old-space-size=2048"
---
apiVersion: apm.k8s.elastic.co/v1
kind: ApmServer
metadata:
  name: test-apm
spec:
  version: 7.9.0
  count: 1
podTemplate:
  spec:
    containers:
      - name: apm-server
    resources:
      requests:
        memory: 2Gi
      limits:
        memory: 2Gi
---
apiVersion: enterprisearch.k8s.elastic.co/v1
kind: EnterpriseSearch
metadata:
  name: enterprise-search-quickstart
spec:
  count: 3
podTemplate:
  spec:
    containers:
      - name: enterprise-search
        resources:
          requests:
            cpu: 3
            memory: 8Gi
          limits:
            memory: 8Gi
        env:
          - name: JAVA_OPTS
            value: -Xms7500m -Xmx7500m

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package license
```go
import (
    "context"
    "testing"
    "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
    "github.com/stretchr/testify/require"
    v1 "k8s.io/api/core/v1"
    metav1 "k8s.io/apis machinery/pkg/apis/meta/v1"
    "k8s.io/apis machinery/pkg/types"
)

func TestUpdateEnterpriseLicense(t *testing.T) {
    nsn := types.NamespacedName{
        Namespace: "test-ns",
        Name:      "license",
    }
    type args struct {
        c      k8s.Client
        secret v1.Secret
        l      EnterpriseLicense
    }
    tests := []struct {
        name      string
        args      args
        wantErr   bool
        assertion func(k8s.Client)
    }{
        {
            name: "updates labels preserving existing ones",
            args: args{
                c: k8s.NewFakeClient(&v1.Secret{ObjectMeta: k8s.ToObjectMeta(nsn)}),
                secret: v1.Secret{
                    ObjectMeta: metav1.ObjectMeta{
                        Name:      nsn.Name,
                        Namespace: nsn.Namespace,
                        Labels: map[string]string{
                            "my-label": "value",
                        },
                    },
                    l: licenseFixtureV3,
                },
                wantErr: false,
                assertion: func(client k8s.Client) {
                    var sec v1.Secret
                    err := client.Get(context.Background(), nsn, &sec)
                    require.NoError(t, err)
                }
            }
        }
    }
}
```

require.Equal(t, sec.Labels["my-label"], "value")
require.Contains(t, sec.Labels, LicenseLabelScope)

name: "basic update",
args: args{
c: k8s.NewFakeClient(&v1.Secret{ObjectMeta: k8s.ToObjectMeta(nsn)}),
secret: v1.Secret{
    ObjectMeta: k8s.ToObjectMeta(nsn),
},
l: licenseFixtureV3,
},
wantErr: false,
assertion: func(client k8s.Client) {
    var sec v1.Secret
    err := client.Get(context.Background(), nsn, &sec)
    require.NoError(t, err)
    require.Equal(t, string(licenseFixtureV3.License.Type), sec.Labels[LicenseLabelType])
    require.Equal(t, string(LicenseScopeOperator), sec.Labels[LicenseLabelScope])
    require.Len(t, sec.Data, 1)
},
}

for _, tt := range tests {
t.Run(tt.name, func(t *testing.T) {
    if err := UpdateEnterpriseLicense(tt.args.c, tt.args.secret, tt.args.l); (err != nil) != tt.wantErr {
        t.Errorf("UpdateEnterpriseLicense() error = %v, wantErr %v", err, tt.wantErr)
    }
    if tt.assertion != nil {
        tt.assertion(tt.args.c)
    }
})
}

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package license

import (  
    "context"
    esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
    "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
    "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
    "k8s.io/apimachinery/pkg/runtime"  
    "sigs.k8s.io/controller-runtime/pkg/reconcile"
func reconcileRequestsForAllClusters(c k8s.Client) ([]reconcile.Request, error) {
    var clusters esv1.ElasticsearchList
    // list all clusters
    err := c.List(context.Background(), &clusters)
    if err != nil {
        return nil, err
    }
    // create a reconcile request for each cluster
    requests := make([]reconcile.Request, len(clusters.Items))
    for i, cl := range clusters.Items {
        requests[i] = reconcile.Request{
            NamespacedName: types.NamespacedName{
                Namespace: cl.Namespace,
                Name:     cl.Name,
            },
        }
    }
    return requests, nil
}

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package trial

import {
    "context"
    "encoding/json"
    "fmt"
    "strings"
    "testing"
    "time"

    licensing "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"
    "github.com/elastic/cloud-on-k8s/pkg/utils/chrono"
    "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
    "github.com/stretchr/testify/require"
    corev1 "k8s.io/api/core/v1"
    metav1 "k8s.io/apimachinery/pkg/apis/meta/v1"
    "k8s.io/apimachinery/pkg/apis/meta/v1"
    "k8s.io/client-go/tools/record"
    "sigs.k8s.io/controller-runtime/pkg/reconcile"
}

const ( testNs = "ns-1" )
trialLicenseName = "eck-trial" // user's choice but constant simplifies test setup
)
var trialLicenseNsn = types.NamespacedName{
Namespace: testNs,
Name:
trialLicenseName,
}
func trialLicenseSecretSample(annotated bool, data map[string][]byte) *corev1.Secret {
sec := corev1.Secret{
ObjectMeta: metav1.ObjectMeta{
Name:
trialLicenseName,
Namespace: testNs,
Labels: map[string]string{
licensing.LicenseLabelType: "enterprise-trial", // assume always there otherwise watch would not trigger
},
Annotations: map[string]string{},
},
Data: data,
}
if annotated {
sec.Annotations[licensing.EULAAnnotation] = licensing.EULAAcceptedValue
}
return &sec
}
func trialStatusSecretSample(t *testing.T, state licensing.TrialState) *corev1.Secret {
t.Helper()
status, err := licensing.ExpectedTrialStatus(testNs, trialLicenseNsn, state)
require.NoError(t, err)
return &status
}
func trialLicenseBytes() []byte {
return []byte(fmt.Sprintf(
`{"license": {"uid": "x", "type": "enterprise_trial", "issue_date_in_millis": 1, "expiry_date_in_millis": %d,
"issued_to": "x", "issuer": "Elastic k8s operator", "start_date_in_millis": 1, "cluster_licenses": null, "Version": 0}}`,
chrono.ToMillis(time.Now().Add(24*time.Hour)), // simulate a license still valid for 24 hours
))
}
func trialStateSample(t *testing.T) licensing.TrialState {
t.Helper()
state, err := licensing.NewTrialState()
require.NoError(t, err)
return state
}

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func runningTrialSample(t *testing.T) licensing.TrialState {
    t.Helper()
    state := trialStateSample(t)
    state.CompleteTrialActivation()
    return state
}

func simulateLicenseInit(t *testing.T, k k8s.Client, secret corev1.Secret) licensing.TrialState {
    t.Helper()
    l := licensing.EnterpriseLicense{
        License: licensing.LicenseSpec{
            Type: licensing.LicenseTypeEnterpriseTrial,
        },
    }
    state, err := licensing.NewTrialState()
    require.NoError(t, err)
    err = state.InitTrialLicense(&l)
    require.NoError(t, err)
    require.NoError(t, licensing.UpdateEnterpriseLicense(k, secret, l))
    return state
}

func simulateRunningTrial(t *testing.T, k k8s.Client, secret corev1.Secret) {
    t.Helper()
    state := simulateLicenseInit(t, k, secret)
    state.CompleteTrialActivation()
    statusSecret := trialStatusSecretSample(t, state)
    require.NoError(t, k.Create(context.Background(), statusSecret))
}

func TestReconcileTrials_Reconcile(t *testing.T) {
    requireValidationMsg := func(msg string) func(c k8s.Client) {
        return func(c k8s.Client) {
            var sec corev1.Secret
            require.NoError(t, c.Get(context.Background(), trialLicenseNsn, &sec))
            err, ok := sec.Annotations[licensing.LicenseInvalidAnnotation]
            require.True(t, ok, "invalid annotation present")
            require.Equal(t, msg, err)
            require.Equal(t, msg, err)
        }
    }

    requireNoValidationMsg := func(c k8s.Client) {
        var sec corev1.Secret
        require.NoError(t, c.Get(context.Background(), trialLicenseNsn, &sec))
        _, ok := sec.Annotations[licensing.LicenseInvalidAnnotation]
        require.False(t, ok, "no invalid annotation expected")
    }

    requireNoValidationMsg := func(c k8s.Client) {
        var sec corev1.Secret
        require.NoError(t, c.Get(context.Background(), trialLicenseNsn, &sec))
        _, ok := sec.Annotations[licensing.LicenseInvalidAnnotation]
        require.False(t, ok, "no invalid annotation expected")
    }
}
requireValidTrial := func(c k8s.Client) {
    var sec corev1.Secret
    require.NoError(t, c.Get(context.Background(), types.NamespacedName{
        Name:  licensing.TrialStatusSecretKey,
        Namespace: testNs,
    }, &sec))
    require.NoError(t, c.Get(context.Background(), trialLicenseNsn, &sec))
    pubKeyBytes := sec.Data[licensing.TrialPubkeyKey]
    key, err := licensing.ParsePubKey(pubKeyBytes)
    require.NoError(t, err)
    lic, err := licensing.TrialLicense(c, trialLicenseNsn)
    require.NoError(t, err)
    require.NoError(t, lic.IsMissingFields())
    verifier := licensing.Verifier{PublicKey: key}
    require.NoError(t, verifier.ValidSignature(lic))
    requireNoValidationMsg(c)
}

type fields struct {
    Client k8s.Client
    trialState licensing.TrialState
}

tests := []struct {
    name       string
    fields     fields
    wantErr    bool
    assertions func(c k8s.Client)
}{
    { 
        name: "trial secret needs accepted EULA",
        fields: fields{
            Client: k8s.NewFakeClient(trialLicenseSecretSample(false, nil)),
        },
        wantErr: false,
        assertions: requireValidationMsg(EULAValidationMsg),
    },
    { 
        name: "valid trial secret inits trial",
        fields: fields{
            Client: k8s.NewFakeClient(trialLicenseSecretSample(true, nil)),
        },
        wantErr: false,
        assertions: requireValidTrial,
    },
    { 
        name: "valid trial after operator restart",
        fields: fields{
            Client: func() k8s.Client {
                return k8s NewFakeClient(trialLicenseSecretSample(true, nil))
            }()
        },
        wantErr: false,
        assertions: requireValidTrial,
    },
}
trialLicense := trialLicenseSecretSample(true, nil)
client := k8s.NewFakeClient(trialLicense)
simulateRunningTrial(t, client, *trialLicense)
return client
}
}
wantErr: false,
assertions: requireValidTrial,
}
}
name: "can start trial after error during trial status retrieval",
fields: fields {
trialLicense := trialLicenseSecretSample(true, nil)
client := k8s.NewFakeClient(trialLicense)
state := simulateLicenseInit(t, client, *trialLicense) // no trial status
return fields{
Client: client,
trialState: state,
}
}
wantErr: false,
assertions: requireValidTrial,
}
}
name: "can start trial after error during trial status creation",
fields: fields{
Client: k8s.NewFakeClient(trialLicenseSecretSample(true, nil)), // no trial status
trialState: trialStateSample(t),
}
wantErr: false,
assertions: requireValidTrial,
}
}
name: "can start trial after operator crash during trial activation",
fields: fields{
Client: func() k8s.Client {
// simulating operator crash right after trial status has been written
status, err := licensing.ExpectedTrialStatus(testNs, trialLicenseNsn, trialStateSample(t))
require.NoError(t, err)
return k8s.NewFakeClient(trialLicenseSecretSample(true, nil), &status)
}(),
}
wantErr: false,
assertions: requireValidTrial,
}
}
name: "invalid: external trial status modification is not allowed once trial is running",
fields: fields{
Client: k8s.NewFakeClient(
trialLicenseSecretSample(true, nil),
trialStatusSecretSample(t, trialStateSample(t), // simulate a different key
),
trialState: runningTrialSample(t),
},
wantErr: false,
assertions: requireValidationMsg(trialOnlyOnceMsg),
},
{name: "external trial status modification is compensated while trial is being activated",
fields: fields{
Client: k8s.NewFakeClient(
trialLicenseSecretSample(true, nil),
trialStatusSecretSample(t, trialStateSample(t)), // simulating a different key
),
trialState: trialStateSample(t),
},
wantErr: false,
assertions: requireValidTrial,
},
{name: "invalid: trial running but no status secret",
fields: fields{
Client: k8s.NewFakeClient(trialLicenseSecretSample(true, nil)),
trialState: runningTrialSample(t),
},
wantErr: false,
assertions: requireValidationMsg(trialOnlyOnceMsg),
},
{name: "invalid: restarting a running trial",
fields: fields{
Client: k8s.NewFakeClient(
// user creates a new trial secret
trialLicenseSecretSample(true, nil),
trialStatusSecretSample(t, trialStateSample(t)),
),
trialState: runningTrialSample(t), // but trial is already running
},
wantErr: false,
assertions: requireValidationMsg(trialOnlyOnceMsg),
},
{name: "invalid: license signature",
fields: fields{
Client: k8s.NewFakeClient(trialLicenseSecretSample(true, map[string][]byte{

"license": trialLicenseBytes(),
}, &corev1.Secret{
ObjectMeta: metav1.ObjectMeta{
Name: licensing.TrialStatusSecretKey,
Namespace: testNs,
},
}

trialState: runningTrialSample(t),
}
wantErr: false,
assertions: requireValidationMsg("trial license signature invalid"),


name: "invalid: trial license but no trial running",
fields: fields{
Client: k8s.NewFakeClient(trialLicenseSecretSample(true, map[string][]byte{
"license": trialLicenseBytes(),
})),
}
wantErr: false,
assertions: requireValidationMsg("trial license signature invalid"),


name: "externally generated licenses are ignored",
fields: fields{
Client: k8s.NewFakeClient(trialLicenseSecretSample(true, map[string][]byte{
"license": []byte(strings.ReplaceAll(string(trialLicenseBytes()), licensing.ECKLicenseIssuer, "Some other issuer")),
})),
}
wantErr: false,
assertions: requireNoValidationMsg,


for _, tt := range tests {

t.Run(tt.name, func(t *testing.T) {

r := &ReconcileTrials{
Client: tt.fields.Client,
recorder: record.NewFakeRecorder(10),
trialState: tt.fields.trialState,
operatorNamespace: testNs,
}

_, err := r.Reconcile(context.Background(), reconcile.Request{
NamespacedName: types.NamespacedName{
Namespace: testNs,
Name: trialLicenseName,
},
})

if (err != nil) != tt.wantErr {


func TestReconcileTrials_reconcileTrialStatus(t *testing.T) {
    var licenseSample licensing.EnterpriseLicense
    require.NoError(t, json.Unmarshal(trialLicenseBytes(), &licenseSample))

    assertTrialActivationState := func(r *ReconcileTrials, status corev1.Secret) {
        require.False(t, r.trialState.IsTrialStarted())
        require.Equal(t, status.Data[licensing.TrialActivationKey], []byte("true"))
        require.Contains(t, status.Data, licensing.TrialPubkeyKey)
    }

    assertTrialRunningState := func(r *ReconcileTrials, status corev1.Secret) {
        require.True(t, r.trialState.IsTrialStarted())
        require.NotContains(t, status.Data, licensing.TrialActivationKey)
        require.Contains(t, status.Data, licensing.TrialPubkeyKey)
    }

    type fields struct {
        Client     k8s.Client
        trialState licensing.TrialState
        license    licensing.EnterpriseLicense
    }

    tests := []struct {
        name       string
        fields     fields
        wantErr    bool
        assertions func(*ReconcileTrials, corev1.Secret)
    }{
        {
            name: "starts trial activation and creates status",
            fields: fields{
                Client: k8s.NewFakeClient(),
            },
            wantErr: false,
            assertions: assertTrialActivationState,
        },
        {
            name: "recreates missing trial status during trial activation",
            fields: fields{
            }}
Client: k8s.NewFakeClient(),
trialState: trialStateSample(t),
}
wantErr: false,
assertions: assertTrialActivationState,
}

name: "recreates missing trial status after trial activation",
fields: fields{
Client: k8s.NewFakeClient(),
trialState: runningTrialSample(t),
}
wantErr: false,
assertions: assertTrialRunningState,
}

name: "restore trial status memory on operator restart during activation: ok",
fields: fields{
Client: k8s.NewFakeClient(trialStatusSecretSample(t, trialStateSample(t))),
}
wantErr: false,
assertions: assertTrialActivationState,
}

name: "restore trial status memory on operator restart during trial: ok",
fields: fields{
Client: k8s.NewFakeClient(trialStatusSecretSample(t, runningTrialSample(t))),
}
wantErr: false,
assertions: assertTrialRunningState,
}

name: "restore trial status memory on operator restart: fail",
fields: fields{
Client: k8s.NewFakeClient(&corev1.Secret{
ObjectMeta: metav1.ObjectMeta{
Name: licensing.TrialStatusSecretKey,
Namespace: testNs,
},
Data: map[string][]byte{
licensing.TrialPubkeyKey: []byte("garbage"),
},
}),
wantErr: true,
},
name: "don't go back to activation state if a populated license exists",
fields: fields{
Client: k8s.NewFakeClient(trialStatusSecretSample(t, trialStateSample(t))), // status still in activation phase
license: licenseSample,
},
wantErr: false,
assertions: assertTrialRunningState,
},

name: "update trial status from memory",
fields: fields{
Client: k8s.NewFakeClient(trialStatusSecretSample(t, trialStateSample(t))),
trialState: runningTrialSample(t),
},
wantErr: false,
assertions: assertTrialRunningState,
}

for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        r := &ReconcileTrials{
            Client:       tt.fields.Client,
            recorder:     record.NewFakeRecorder(10),
            trialState:   tt.fields.trialState,
            operatorNamespace: testNs,
        }
        if err := r.reconcileTrialStatus(trialLicenseNsn, tt.fields.license); (err != nil) != tt.wantErr {
            t.Errorf("reconcileTrialStatus() error = %v, wantErr %v", err, tt.wantErr)
        }
        if tt.assertions != nil {
            var sec corev1.Secret
            require.NoError(t, r.Get(context.Background(), types.NamespacedName{
                Namespace: testNs,
                Name:      licensing.TrialStatusSecretKey,
            }, &sec))
            tt.assertions(r, sec)
        }
    })
}

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**Module**: github.com/Masterminds/sprig/v3  
**Version**: v3.2.2  
**Time**: 2021-02-04T20:32:52Z  
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**Module**: github.com/blang/semver/v4  
**Version**: v4.0.0  
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Module : github.com/davecgh/go-spew
Version : v1.1.1
Time    : 2018-02-21T23:26:28Z
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Module : github.com/elastic/go-ucfg
Version : v0.8.3
Time    : 2020-02-20T11:45:39Z
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Module : github.com/fsnotify/fsnotify
Version : v1.4.9
Time : 2020-03-11T17:35:18Z
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module : github.com/go-logr/logr
version : v0.4.0
time    : 2021-01-23T00:09:52Z
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Version : v1.2.1
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Version : v1.0.5
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Version : v3.0.0-20210107192922-496545a6307b
Time    : 2021-01-07T19:29:22Z
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Time    : 2021-06-04T16:52:39Z
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Version : v2.9.0
Time    : 2021-05-12T11:07:38Z
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Time    : 2021-05-27T16:06:23Z
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Time : 2020-06-23T16:10:07Z
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Module: github.com/alecthomas/units
Version: v0.0.0-20190924025748-f65c72e2690d
Time: 2019-09-24T02:57:48Z
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------------------------------------------------------------------------------------------------------------------
Module : github.com/antihax/optional
Version : v1.0.0
Time : 2019-10-10T23:37:20Z
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Module : github.com/armon/go-radix
Version : v1.0.0
Time    : 2018-08-24T02:57:28Z
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Module : github.com/asaskevich/govalidator
Version : v0.0.0-20190424111038-f61b66f89f4a
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Module : github.com/aws/aws-sdk-go
Version : v1.25.37
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Module : github.com/benbjohnson/clock
Version : v1.1.0
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Module : github.com/bgentry/speakeasy
Version : v0.1.0
Time    : 2017-04-17T20:07:03Z
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Module : github.com/bketelsen/crypt
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Module : github.com/blang/semver
Version : v3.5.1+incompatible
Time    : 2017-07-27T06:48:18Z
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Module : github.com/cespare/xxhash
Version : v1.1.0
Time    : 2018-09-10T06:45:31Z
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Module : github.com/chzyer/logex
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Module : github.com/chzyer/readline
Version : v0.0.0-20180603132655-2972be24d48e
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Module : github.com/chzyer/test
Version : v0.0.0-20180213035817-a1ea475d72b1
Time    : 2018-02-13T03:58:17Z
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Time : 2019-08-09T21:44:29Z
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Module : github.com/coreos/bbolt
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Module : github.com/cpuguy83/go-md2man/v2
Version : v2.0.0
Time    : 2019-03-14T23:30:15Z
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Module : github.com/creack/pty
Version : v1.1.11
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Module : github.com/dgryski/go-gk
Version : v0.0.0-20200319235926-a69029f61654
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Module : github.com/dgryski/go-sip13
Version : v0.0.0-20181026042036-e10d5fee7954
Time : 2018-10-26T04:20:36Z
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Module: github.com/docopt/docopt-go
Version: v0.0.0-20180111231733-ee0de3bc6815
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Module : github.com/dustin/go-humanize
Version : v1.0.0
Time    : 2018-07-13T05:29:10Z
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Module : github.com/elastic/go-licenser
Version : v0.3.1
Time    : 2019-10-14T11:24:07Z
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Module : github.com/elazarl/goproxy
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Module : github.com/emicklei/go-restful
Version : v2.9.5+incompatible
Time    : 2019-05-16T08:07:22Z
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Module : github.com/envoyproxy/go-control-plane
Version : v0.9.9-0.20210217033140-668b12f5399d
Time : 2021-02-17T03:31:40Z
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Module : github.com/evanphx/json-patch
Version : v4.11.0+incompatible
Time : 2021-06-04T04:51:04Z
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Module : github.com/fatih/color
Version : v1.12.0
Time    : 2021-05-24T09:58:38Z
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Module : github.com/fatih/structs
Version : v1.1.0
Time    : 2018-09-14T09:55:22Z
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Module: github.com/go-asn1-ber/asn1-ber
Version: v1.3.1
Time: 2019-11-05T00:34:16Z
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Module: github.com/go-gl/glfw
Version: v0.0.0-20190409004039-e6da0acd62b1
Time: 2019-04-09T00:40:39Z
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Module : github.com/go-gl/glfw/v3.3/glfw
Version : v0.0.0-20200222043503-6f7a984d4dc4
Time : 2020-02-22T04:35:03Z
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Module : github.com/go-kit/kit
Version : v0.9.0
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Module : github.com/go-kit/log
Version : v0.1.0
Time    : 2021-06-02T02:03:10Z
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Module : github.com/go-ldap/ldap/v3
Version : v3.1.3
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Module : github.com/go-logfmt/logfmt
Version : v0.5.0
Time    : 2020-01-04T05:22:39Z
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Module : github.com/go-logr/zapr
Version : v0.4.0
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Version : v0.19.3
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Module : github.com/go-stack/stack
Version : v1.8.0
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Module : github.com/go-task/slim-sprig
Version : v0.0.0-20210107165309-348f09dbb0c0
Time : 2021-01-07T16:53:09Z
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Module : github.com/godbus/dbus/v5
Version : v5.0.4
Time    : 2021-03-23T03:10:11Z
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Module : github.com/gogo/protobuf
Version : v1.3.2
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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Version : v1.5.0
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Module : github.com/google/btree
Version : v1.0.0
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Time : 2018-10-17T12:02:53Z
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Module : github.com/gorilla/websocket
Version : v1.4.2
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Version : v0.0.0-20180305231024-9cad4c3443a7
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Version : v1.16.0
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Module  : github.com/inconshreveable/mousetrap
Version : v1.0.0
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Version : v0.0.1
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Module : github.com/jessevdk/go-flags
Version : v1.4.0
Time    : 2018-03-31T11:19:16Z
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Module : github.com/jmespath/go-jmespath
Version : v0.0.0-20180206201540-c2b33e8439af
Time    : 2018-02-06T20:15:40Z
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Module : github.com/joeshaw/multierror
Version : v0.0.0-20140124173710-69b34d4ec901
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Module : github.com/jpillora/backoff
Version : v1.0.0
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Module : github.com/json-iterator/go
Version : v1.1.11
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Version : v4.20.0+incompatible
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--------------------------------------------------------------------------------

Module  : github.com/julienschmidt/httprouter
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Module : github.com/julienschmidt/httprouter
Version : v1.3.0
Time    : 2021-01-05T19:12:31Z
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Module : github.com/kisielk/errcheck
Version : v1.5.0
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Module : github.com/kisielk/gotool
Version : v1.0.0
Time    : 2018-02-21T18:54:26Z
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match.go, match_test.go:

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Module : github.com/konsorten/go-windows-terminal-sequences
Version : v1.0.3
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Module : github.com/kr/fs
Version : v0.1.0
Time    : 2018-05-06T03:17:01Z
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Module : github.com/kr/logfmt
Version : v0.0.0-20140226030751-b84e30acd515
Time    : 2014-02-26T03:07:51Z
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Module : github.com/kr/pretty
Version : v0.2.0
Time    : 2019-12-31T23:40:08Z
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Module : github.com/kr/pty
Version : v1.1.5
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Module : github.com/mailru/easyjson
Version : v0.7.0
Time : 2019-09-10T11:06:03Z
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Module : github.com/mattn/go-colorable
Version : v0.1.8
Time : 2020-10-03T12:20:15Z
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Module : github.com/mattn/go-isatty
Version : v0.0.12
Time    : 2020-01-21T17:27:41Z
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Module : github.com/mattn/go-runewidth
Version : v0.0.2
Time    : 2017-02-01T02:26:20Z
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Module : github.com/matttproud/golang_protobuf_extensions
Version : v1.0.2-0.20181231171920-c182affec369
Time : 2018-12-31T17:19:20Z
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Module : github.com/mitchellh/cli
Version : v1.0.0
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Time    : 2019-10-10T08:34:16Z
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Module: github.com/mwitkow/go-conntrack
Version: v0.0.0-20190716064945-2f068394615f
Time: 2019-07-16T06:49:45Z
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Version : v0.0.0-20140419014527-cca7078d478f
Time : 2014-04-19T01:45:27Z
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Module : github.com/niemeyer/pretty
Version : v0.0.0-20200227124842-a10e7caef8e
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Module: github.com/nxadm/tail
Version: v1.4.8
Time: 2021-02-07T16:08:07Z
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Module: github.com/oklog/run
Version: v1.0.0
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Module : github.com/olekukkonko/tablewriter
Version : v0.0.0-20170122224234-a0225b3f23b5
Time    : 2017-01-22T22:42:34Z
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Module : github.com/onsi/ginkgo
Version : v1.16.4
Time : 2021-06-02T18:20:44Z
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Version : v1.13.0
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Module: github.com/pascaldekloe/goe
Version: v0.1.0
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Module: github.com/pelletier/go-toml
Version: v1.9.3
Time: 2021-06-14T14:56:19Z
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localtime.go, localtime_test.go:

Originals:
  https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
  https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go

Changes:
  * Renamed files from civil* to localtime*.
  * Package changed from civil to toml.
  * 'Local' prefix added to all structs.

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Module : github.com/peterbourgon/diskv  
Version : v2.0.1+incompatible  
Time : 2017-08-14T17:35:58Z  
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Module : github.com/pierrec/lz4  
Version : v2.0.5+incompatible  
Time : 2018-08-30T18:52:49Z  
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Module : github.com/pkg/sftp
Version : v1.10.1
Time    : 2019-08-26T01:40:38Z
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Module : github.com/pmezard/go-difflib
Version : v1.0.0
Time : 2016-01-10T10:55:54Z
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Module : github.com/posener/complete
Version : v1.1.1
Time : 2018-03-09T06:24:32Z
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Module : github.com/pquerna/cachecontrol
Version : v0.0.0-20171018203845-0dec1b30a021
Time : 2017-10-18T20:38:45Z
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Module: github.com/santhosh-tekuri/jsonschema
Version: v1.2.4
Time: 2018-12-06T11:30:25Z
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-----------------------------------------------------------------------------------------------
Module : github.com/sean-/seed
Version : v0.0.0-20170313163322-e2103e2c3529
Time    : 2017-03-13T16:33:22Z
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--------------------------------------------------------------------------------
Module : github.com/sirupsen/logrus
Version : v1.7.0
Time : 2020-05-28T08:56:38Z
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Module  : github.com/smartystreets/assertions
Version : v0.0.0-20180927180507-b2de0cb4f26d
Time    : 2018-09-27T18:05:07Z
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Module: github.com/smartystreets/goconvey
Version: v1.6.4
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Module: github.com/soheilhy/cmux
Version: v0.1.4
Time: 2018-01-29T15:50:01Z
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Module : github.com/spf13/afero
Version : v1.6.0
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Module: github.com/spf13/cast
Version: v1.3.1
Time: 2019-12-18T07:28:14Z
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Module : github.com/stoewer/go-strcase
Version : v1.2.0
Time    : 2020-02-26T19:38:00Z
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Module  : github.com/streadway/quantile
Version  : v0.0.0-20150917103942-b0c588724d25
Time    : 2015-09-17T10:39:42Z
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Module : github.com/stretchr/objx
Version : v0.2.0
Time     : 2019-04-09T12:31:02Z
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Module : github.com/subosito/gotenv
Version : v1.2.0
Time     : 2019-08-03T14:02:50Z
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Module : github.com/tmc/grpc-websocket-proxy
Version : v0.0.0-20190109142713-0ad062ec5ee5
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Module : github.com/tv42/httpunix
Version : v0.0.0-20150427012821-b75d8614f926
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Module : github.com/urfave/cli
Version : v1.20.0
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Module : github.com/xiang90/probing
Version : v0.0.0-20190116061207-43a291ad63a2
Time : 2019-01-16T06:12:07Z
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Module : github.com/yuin/goldmark
Version : v1.3.5
Time    : 2021-04-13T17:01:54Z
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Module : go.elastic.co/apm/module/apmhttp
Version : v1.12.0
Time    : 2021-05-25T17:24:56Z
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Module  : go.elastic.co/fastjson
Version : v1.1.0
Time    : 2020-05-11T07:15:19Z
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release: 2020-09-10T18:07:54Z
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Module : go.uber.org/atomic
Version : v1.7.0
Time    : 2020-09-14T16:04:36Z
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Module  : go.uber.org/goleak
Version : v1.1.10
Time    : 2020-07-21T18:42:16Z
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Module : golang.org/x/exp
Version : v0.0.0-20200224162631-6cc2880d07d6
Time    : 2020-02-24T16:26:31Z
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Module : golang.org/x/image
Version : v0.0.0-20190802002840-cff245a6509b
Time    : 2019-08-02T00:28:40Z
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Module  : golang.org/x/lint
Version : v0.0.0-20210508222113-6edffad5e616
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Module  : golang.org/x/mobile
Version : v0.0.0-20190719004257-d2bd2a29d028
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Module : golang.org/x/net
Version : v0.0.0-20210428140749-89ef3d95e781
Time    : 2021-04-28T14:07:49Z
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Module : golang.org/x/oauth2
Version : v0.0.0-20210402161424-2e8d93401602
Time : 2021-04-02T16:14:24Z
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Module: golang.org/x/sync
Version: v0.0.0-20210220032951-036812b2e83c
Time: 2021-02-20T03:29:51Z
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Module: golang.org/x/sys
Version: v0.0.0-20210603081109-ebe580a85c40
Time: 2021-06-03T08:11:09Z
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Module : golang.org/x/text
Version : v0.3.6
Time    : 2021-03-30T05:48:03Z
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Module : golang.org/x/time
Version : v0.0.0-20210611083556-38a9dc6acbc6
Time : 2021-06-11T08:35:56Z
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Module : golang.org/x/tools
Version : v0.1.3
Time : 2021-06-09T21:40:20Z
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Version : v0.0.0-20200804184101-5ec99f83aff1
Time : 2020-08-04T18:41:01Z
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Version : v2.2.0
Time    : 2021-05-19T16:08:02Z
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Time    : 2018-11-21T03:53:19Z
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Time    : 2018-10-29T23:41:49Z
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Version : v0.44.0
Time    : 2021-04-07T19:07:32Z
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Time    : 2020-10-13T00:46:28Z
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Module : google.golang.org/protobuf
Version : v1.26.0
Time    : 2021-03-18T00:27:53Z
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Module : gopkg.in/alecthomas/kingpin.v2
Version : v2.2.6
Time    : 2017-12-17T18:08:38Z
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Version : v1.0.0-20200227125254-8fa46927fb4f
Time    : 2020-02-27T12:52:54Z
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Module : gopkg.in/cheggaaa/pb.v1
Version : v1.0.25
Time    : 2018-05-21T09:56:06Z
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Module : gopkg.in/errgo.v2
Version : v2.1.0
Time : 2018-08-23T07:15:05Z
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Module : gopkg.in/fsnotify.v1
Version : v1.4.7
Time : 2018-01-10T05:33:47Z
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Module : gopkg.in/inf.v0
Version : v0.9.1
Time : 2018-03-26T17:23:32Z
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Version : v1.62.0
Time    : 2020-10-06T07:31:30Z
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Version : v2.0.0
Time    : 2018-08-17T14:57:47Z
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Version : v1.12.0
Time    : 2019-02-28T07:26:48Z
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Version : v2.5.1
Time : 2020-05-01T01:01:20Z
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Version : v3.0.3
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Version    : v0.21.2
Time       : 2021-06-17T22:52:48Z
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Version : v0.21.2
Time : 2021-06-17T22:34:59Z
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Version : v0.21.2
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--------------------------------------------------------------------------------
Module : rsc.io/binaryregexp
Version : v0.2.0
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---------------------------------------------------------------------------------------------------------------------
Module : rsc.io/quote/v3
Version : v3.1.0
Time    : 2019-03-12T14:59:12Z
Licence : BSD-3-Clause

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---------------------------------------------------------------------------------------------------------------------
Module : rsc.io/sampler
Version : v1.3.0
Time    : 2018-02-13T19:05:03Z
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----------------------------------------------------------------------------
Module : sigs.k8s.io/apiserver-network-proxy/konnectivity-client
Version : v0.0.19
Time    : 2021-05-22T05:59:37Z
Licence : Apache-2.0

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Module : sigs.k8s.io/structured-merge-diff/v4
Version : v4.1.0
Time    : 2021-02-27T03:20:38Z
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{{- define "depRow" -}}
{{- range $i, $dep := . }}
| link:{{ $dep.URL }}[$${{ $dep.Name }}$$] | {{ $dep.Version }} | {{ $dep.LicenceType }}
{{- end -}}

// Generated documentation. Please do not edit.
:page_id: dependencies
ifdef::env-github[]
****
link:https://www.elastic.co/guide/en/cloud-on-k8s/master/k8s-[[page_id]].html[View this document on the Elastic website]
****
endif:[]
This page lists the third-party dependencies used to build {n}.

Direct dependencies

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
<th>Licence</th>
</tr>
</thead>
</table>

Indirect dependencies

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
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</table>

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package license
import (  
"context"  
"sort"  
"time"

"github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
"github.com/pkg/errors"
corev1 "k8s.io/api/core/v1"
"k8s.io/apimachinery/pkg/types"
)

const (  
// EventInvalidLicense describes an event fired when a license is not valid.  
EventInvalidLicense = "InvalidLicense"
)
type Checker interface {
    CurrentEnterpriseLicense(*EnterpriseLicense, error)
    EnterpriseFeaturesEnabled() (bool, error)
    Valid(l EnterpriseLicense) (bool, error)
}

// checker contains parameters for license checks.
type checker struct {
    k8sClient         k8s.Client
    operatorNamespace string
    publicKey         []byte
}

// NewLicenseChecker creates a new license checker.
func NewLicenseChecker(client k8s.Client, operatorNamespace string) Checker {
    return &checker{
        k8sClient:         client,
        operatorNamespace: operatorNamespace,
        publicKey:         publicKeyBytes,
    }
}

func (lc *checker) publicKeyFor(l EnterpriseLicense) ([]byte, error) {
    if !l.IsECKManagedTrial() {
        return lc.publicKey, nil
    }

    var signatureSec corev1.Secret
    err := lc.k8sClient.Get(context.Background(), types.NamespacedName{
        Namespace: lc.operatorNamespace,
        Name:      TrialStatusSecretKey,
    }, &signatureSec)
    // read secret data only after retrieving the secret
    return signatureSec.Data[TrialPubkeyKey], err
}

// CurrentEnterpriseLicense returns the currently valid Enterprise license if installed.
func (lc *checker) CurrentEnterpriseLicense() (*EnterpriseLicense, error) {
    licenses, err := EnterpriseLicenses(lc.k8sClient)
    if err != nil {
        return nil, errors.Wrap(err, "failed to list enterprise licenses")
    }

    sort.Slice(licenses, func(i, j int) bool {
        t1, t2 := EnterpriseLicenseTypeOrder[licenses[i].License.Type],
                  EnterpriseLicenseTypeOrder[licenses[j].License.Type]
        if t1 != t2 { // sort by type (first the most features)
            return t1 > t2
        }

        return false
    })

    return licenses[0], nil
}
// and by expiry date (first which expires last)
return licenses[i].License.ExpiryDateInMillis > licenses[j].License.ExpiryDateInMillis
})

// pick the first valid Enterprise license in the sorted slice
for _, l := range licenses {
valid, err := lc.Valid(l)
if err != nil {
return nil, err
}
if valid {
return &l, nil
}
return nil, nil
}

// EnterpriseFeaturesEnabled returns true if a valid enterprise license is installed.
func (lc *checker) EnterpriseFeaturesEnabled() (bool, error) {
license, err := lc.CurrentEnterpriseLicense()
if err != nil {
return false, err
}
return license != nil, nil
}

// Valid returns true if the given Enterprise license is valid or an error if any.
func (lc *checker) Valid(l EnterpriseLicense) (bool, error) {
pk, err := lc.publicKeyFor(l)
if err != nil {
return false, errors.Wrap(err, "while loading signature secret")
}
if len(pk) == 0 {
log.Info("This is an unlicensed development build of ECK. License management and Enterprise features are disabled")
return false, nil
}
verifier, err := NewVerifier(pk)
if err != nil {
return false, err
}
status := verifier.Valid(l, time.Now())
if status == LicenseStatusValid {
return true, nil
}
return false, nil
}
type MockChecker struct {
    MissingLicense bool
}

func (m MockChecker) CurrentEnterpriseLicense() (*EnterpriseLicense, error) {
    return &EnterpriseLicense{}, nil
}

func (m MockChecker) EnterpriseFeaturesEnabled() (bool, error) {
    return !m.MissingLicense, nil
}

func (m MockChecker) Valid(l EnterpriseLicense) (bool, error) {
    return !m.MissingLicense, nil
}

var _ Checker = &MockChecker{}

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package license

import (
    "crypto/rand"
    "crypto/rsa"
    "crypto/x509"
    "encoding/base64"
    "reflect"
    "testing"
    "time"
    "github.com/go-test/deep"
    "github.com/elastic/cloud-on-k8s/pkg/utils/chrono"
    "github.com/stretchr/testify/assert"
    "github.com/stretchr/testify/require"
)

func TestLicenseVerifier_ValidSignature(t *testing.T) {
    rnd := rand.Reader
    privKey, err := rsa.GenerateKey(rnd, 2048)
    assert.NoError(t, err)
    tests := []struct {
        name  string
        args  EnterpriseLicense
    }
verifyInput func(EnterpriseLicense) EnterpriseLicense
wantErr bool
|
|
name: "valid v3 license",
args: licenseFixtureV3,
wantErr: false,
|
name: "valid v4 license",
args: licenseFixtureV4,
wantErr: false,
|
name: "tampered v3 license",
args: licenseFixtureV3,
verifyInput: func(l EnterpriseLicense) EnterpriseLicense {
  l.License.MaxInstances = 1
  return l
},
wantErr: true,
|
name: "tampered v4 license",
args: licenseFixtureV4,
verifyInput: func(l EnterpriseLicense) EnterpriseLicense {
  l.License.MaxResourceUnits = 1
  return l
},
wantErr: true,
|
name: "empty signature",
args: licenseFixtureV4,
verifyInput: func(l EnterpriseLicense) EnterpriseLicense {
  l.License.Signature = ""
  return l
},
wantErr: true,
|
for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    v := NewSigner(privKey)
    sig, err := v.Sign(tt.args)
    require.NoError(t, err)
    toVerify := withSignature(tt.args, sig)
    if tt.verifyInput != nil {
      if err := tt.verifyInput(toVerify); err != nil {
toVerify = tt.verifyInput(toVerify)
}
if err := v.ValidSignature(toVerify); (err != nil) != tt.wantErr {
t.Errorf("Verifier.ValidSignature() error = %v, wantErr %v", err, tt.wantErr)
}
}

func TestNewLicenseVerifier(t *testing.T) {
privKey, err := x509.ParsePKCS1PrivateKey(privateKeyFixture)
require.NoError(t, err)

publicKey := privKey.PublicKey
pubKeyBytes, err := x509.MarshalPKIXPublicKey(&publicKey)
assert.NoError(t, err)

tests := []struct {
    name string
    want func(verifier *Verifier)
}{{
    name: "Can create verifier from pub key bytes",
    want: func(v *Verifier) {
        require.NoError(t, v.ValidSignature(licenseFixtureV3))
    },
},
{
    name: "Detects tampered license",
    want: func(v *Verifier) {
        l := licenseFixtureV3
        l.License.Issuer = "me"
        require.Error(t, v.ValidSignature(l))
    },
},
{
    name: "Detects empty signature",
    want: func(v *Verifier) {
        l := licenseFixtureV3
        l.License.Signature = ""
        require.Error(t, v.ValidSignature(l))
    },
},
{
    name: "Detects malicious signature",
    want: func(v *Verifier) {
        malice := make([]byte, base64.StdEncoding.DecodedLen(len(signatureFixtureV3)))
        _, err := base64.StdEncoding.Decode(malice, signatureFixtureV3)
        require.Error(t, err)
    },
}
require.NoError(t, err)
// inject max uint32 as the magic length
malice[5] = 255
malice[6] = 255
malice[7] = 255
malice[8] = 255
tampered := make([]byte, base64.StdEncoding.EncodedLen(len(malice)))
base64.StdEncoding.Encode(tampered, malice)
err = v.ValidSignature(withSignature(licenseFixtureV3, tampered))
require.Error(t, err)
assert.Contains(t, err.Error(), "magic")
},
},
{
name: "Can recalculate signature",
want: func(v *Verifier) {
    signer := NewSigner(privKey)
    bytes, err := signer.Sign(licenseFixtureV3)
    require.NoError(t, err)
    require.NoError(t, v.ValidSignature(withSignature(licenseFixtureV3, bytes)))
},
},
{
name: "Can verify license signed by external tooling",
want: func(v *Verifier) {
    lic, err := externallySignedLicenseFixture()
    require.NoError(t, err)
    require.NoError(t, v.ValidSignature(lic))
},
},
{
name: "Can produce same signature as external tooling",
want: func(v *Verifier) {
    signer := NewSigner(privKey)
    licenseSpec := EnterpriseLicense{
        License: LicenseSpec{
            UID: "F983C1D2-1676-4427-8B6A-EF954AEEC174",
            Type: "enterprise",
            IssueDateInMillis: 1606262400000,
            ExpiryDateInMillis: 1640995199999,
            MaxResourceUnits: 100,
            IssuedTo: "ECK Unit & test <>",
            Issuer: "ECK Unit tests",
            StartDateInMillis: 1606262400000,
            ClusterLicenses: nil,
            Version: 4,
        }
    }
    // license attributes contain <> and & which json.Marshal escapes by default leading to a signature
    // mismatch unless handled explicitly
    require.NoError(t, v.ValidSignature(lic))
},

sig, err := signer.Sign(licenseSpec)
require.NoError(t, err)
require.NoError(t, v.ValidSignature(withSignature(licenseSpec, sig)))

lic, err := externallySignedLicenseFixture()
require.NoError(t, err)

expectedBytes, err := base64.StdEncoding.DecodeString(lic.License.Signature)
require.NoError(t, err)
actualBytes, err := base64.StdEncoding.DecodeString(string(sig))
require.NoError(t, err)
// some jiggery-pokery with knowledge of signature internals here to remove the random bits to allow a stable comparison
require.Nil(t, deep.Equal(append(expectedBytes[:7], expectedBytes[21:]), append(actualBytes[:7], actualBytes[21:])))

for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        got, err := NewVerifier(pubKeyBytes)
        if err != nil {
            t.Errorf("NewVerifier() error = %v", err)
            return
        }
        if tt.want != nil {
            tt.want(got)
        }
    })
}

func TestVerifier_Valid(t *testing.T) {
    type fields struct {
        PublicKey *rsa.PublicKey
    }
    type args struct {
        l   EnterpriseLicense
        now time.Time
    }
    tests := []struct {
        name  string
        fields fields
        args  args
        want  LicenseStatus
    }{
{  
name: "valid license",
fields: fields{  
  PublicKey: publicKeyFixture(t),
},
args: args{  
  l: licenseFixtureV3,
  now: chrono.MustParseTime("2019-02-01"),
},
want: LicenseStatusValid,
},

{  
name: "expired license",
fields: fields{  
  PublicKey: publicKeyFixture(t),
},
args: args{  
  l: licenseFixtureV3,
  now: chrono.MustParseTime("2019-08-01"),
},
want: LicenseStatusExpired,
},

{  
name: "invalid signature",
fields: fields{  
  PublicKey: func() *rsa.PublicKey {  
    priv, err := rsa.GenerateKey(rand.Reader, 2048)  
    require.NoError(t, err)  
    return &priv.PublicKey  
  }(),
},
args: args{  
  l: licenseFixtureV3,
  now: chrono.MustParseTime("2019-03-01"),
},
want: LicenseStatusInvalid,
},

for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    v := &Verifier{  
      PublicKey: tt.fields.PublicKey,
    }
    if got := v.Valid(tt.args.l, tt.args.now); !reflect.DeepEqual(got, tt.want) {
      t.Errorf("Verifier.Valid() = %v, want %v", got, tt.want)
    }
  })
}
package license

import {
    "context"
    "encoding/json"
    "reflect"
    "testing"
    "time"

    esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
    commonlicense "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"
    "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
    "github.com/elastic/cloud-on-k8s/pkg/utils/chrono"
    "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
    "github.com/stretchr/testify/require"
    corev1 "k8s.io/api/core/v1"
    apierrors "k8s.io/apimachinery/pkg/api/errors"
    metav1 "k8s.io/apimachinery/pkg/apis/meta/v1"
    "k8s.io/apimachinery/pkg/runtime"
    "sigs.k8s.io/controller-runtime/pkg/reconcile"
}

func Test_nextReconcileRelativeTo(t *testing.T) {
    now := chrono.MustParseTime("2019-02-01")
    type args struct {
        expiry time.Time
        safety time.Duration
    }
    tests := []struct {
        name string
        args args
        want reconcile.Result
    }{
        {
            name: "no expiry found, retry after ",
            args: args{
                expiry: time.Time{},
                safety: 30 * 24 * time.Hour,
            },
            want: reconcile.Result{
                RequeueAfter: minimumRetryInterval,
            },
        },
    }
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        if got := nextReconcileRelativeTo(now, tt.args.expiry, tt.args.safety); !reflect.DeepEqual(got, tt.want) {
            t.Errorf("nextReconcileRelativeTo() = %v, want %v", got, tt.want)
        }
    })
}

var cluster = &esv1.Elasticsearch{
    ObjectMeta: metav1.ObjectMeta{
        Name: "cluster",
        Namespace: "namespace",
    },
    Spec: esv1.ElasticsearchSpec{
        Version: "8.0.0",
    },
}

func enterpriseLicense(t *testing.T, licenseType client.ElasticsearchLicenseType, maxNodes int, expired bool) *corev1.Secret {
    t.Helper()
    expiry := time.Now().Add(31 * 24 * time.Hour)
    if expired {
        expiry = time.Now().Add(-24 * time.Hour)
    }
    license := commonlicense.EnterpriseLicense{
        License: commonlicense.LicenseSpec{
            ExpiryDateInMillis: expiry.Unix() * 1000,
            StartDateInMillis: time.Now().Add(-1*time.Minute).Unix() * 1000,
        },
        ClusterLicenses: []commonlicense.ElasticsearchLicense{
License: client.License{
    ExpiryDateInMillis: expiry.Unix() * 1000,
    StartDateInMillis: time.Now().Add(-1*time.Minute).Unix() * 1000,
    Type:               string(licenseType),
    MaxNodes:           maxNodes,
    Signature:          "blah",
}
bytes, err := json.Marshal(license)
require.NoError(t, err)
return &corev1.Secret{
    ObjectMeta: metav1.ObjectMeta{
        Labels: commonlicense.LabelsForOperatorScope(license.License.Type),
    },
    Data: map[string][]byte{
        commonlicense.FileName: bytes,
    },
}

func TestReconcileLicenses_reconcileInternal(t *testing.T) {
    tests := []struct {
        name             string
        cluster          *esv1.Elasticsearch
        k8sResources     []runtime.Object
        wantErr          string
        wantNewLicense   bool
        wantRequeue      bool
        wantRequeueAfter bool
    }{
        name:             "no existing license: nothing to do",
        cluster:          cluster,
        k8sResources:     []runtime.Object{cluster},
        wantErr:          "",
        wantNewLicense:   false,
        wantRequeue:      false,
        wantRequeueAfter: false,
    },
    name:             "existing gold matching license",
    cluster:          cluster,
    k8sResources:     []runtime.Object{enterpriseLicense(t, client.ElasticsearchLicenseTypeGold, 1, false),
    ...
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        client := k8s.NewFakeClient(tt.k8sResources...)
        r := &ReconcileLicenses{
            Client: client,
            checker: commonlicense.MockChecker{},
        }
        nsn := k8s.ExtractNamespacedName(tt.cluster)
        res, err := r.reconcileInternal(reconcile.Request{NamespacedName: nsn}).Aggregate()
        if tt.wantErr != "" {
            require.EqualError(t, err, tt.wantErr)
            return
        } else {
            require.NoError(t, err)
            if tt.wantRequeue {
                require.True(t, res.Requeue)
            }
        }
    })
}
require.Zero(t, res.RequeueAfter)
}
if tt.wantRequeueAfter {
require.False(t, res.Requeue)
require.NotZero(t, res.RequeueAfter)
}

// verify that a cluster license was created
// following the es naming convention
licenseNsn := nsn
licenseNsn.Name = esv1.LicenseSecretName(licenseNsn.Name)
var license corev1.Secret
err = client.Get(context.Background(), licenseNsn, &license)
if !tt.wantNewLicense {
require.True(t, apierrors.IsNotFound(err))
} else {
require.NoError(t, err)
require.NotEmpty(t, license.Data)
}
}
}

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package license

import (
    "testing"

    "github.com/elastic/cloud-on-k8s/pkg/controller/common"
    corev1 "k8s.io/api/core/v1"
    v1 "k8s.io/apimachinery/pkg/apis/meta/v1"
)

func Test_isLicenseType(t *testing.T) {
    type args struct {
        secret corev1.Secret
    }
    tests := []struct {
        name    string
        args    args
        want    bool
        wantTrial bool
    }
    
    name: "any secret: no license",
    args: args
secret: corev1.Secret{},
},
want: false,
wantTrial: false,
,
{name: "if common type is set it needs to consistent",
args: args{
secret: corev1.Secret{
ObjectMeta: v1.ObjectMeta{
Labels: map[string]string{
common.TypeLabelName: "foo",
LicenseLabelType: string(LicenseTypeEnterpriseTrial),
},
},
},
},
want: false,
wantTrial: false,
},
{name: "label based: trial",
args: args{
secret: corev1.Secret{
ObjectMeta: v1.ObjectMeta{
Labels: map[string]string{
common.TypeLabelName: Type,
LicenseLabelType: string(LicenseTypeEnterpriseTrial),
},
},
},
want: false,
wantTrial: true,
},
{name: "label based: enterprise",
args: args{
secret: corev1.Secret{
ObjectMeta: v1.ObjectMeta{
Labels: map[string]string{
common.TypeLabelName: Type,
LicenseLabelType: string(LicenseTypeEnterprise),
},
},
},
want: true,
wantTrial: false,
},
}
for _, tt := range tests {
t.Run(tt.name, func(t *testing.T) {
if got := isLicenseType(tt.args.secret, LicenseTypeEnterprise); got != tt.want {
t.Errorf("isLicenseType() = %v, want %v", got, tt.want)
}
if got := isLicenseType(tt.args.secret, LicenseTypeEnterpriseTrial); got != tt.wantTrial {
t.Errorf("isLicenseType() = %v, wantTrial %v", got, tt.wantTrial)
}
})
}
}
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package fixtures
const (
LicenseUpdateResponseSample
= `{"acknowledged":true,"license_status":"valid"}`
LicenseFailedUpdateResponseSample = `{"acknowledged":true,"license_status":"invalid"}`
LicenseGetSample
= `{
"license" : {
"status" : "active",
"uid" : "893361dc-9749-4997-93cb-802e3d7fa4xx",
"type" : "platinum",
"issue_date" : "2019-01-22T00:00:00.000Z",
"issue_date_in_millis" : 1548115200000,
"expiry_date" : "2019-06-22T23:59:59.999Z",
"expiry_date_in_millis" : 1561247999999,
"max_nodes" : 100,
"issued_to" : "unit-tests",
"issuer" : "issuer",
"start_date_in_millis" : 1548115200000
}
}`
LicenseSample = `{
"status" : "active",
"uid" : "893361dc-9749-4997-93cb-802e3d7fa4xx",
"type" : "platinum",
"issue_date" : "2019-01-22T00:00:00.000Z",
"issue_date_in_millis" : 1548115200000,
"expiry_date" : "2019-06-22T23:59:59.999Z",
"expiry_date_in_millis" : 1561247999999,
"max_nodes" : 100,
"issued_to" : "unit-tests",

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package license

import (    "testing"

commonlicense "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"    "github.com/stretchr/testify/assert"
)

func TestToMap(t *testing.T) {    t.Run("empty_object", func(t *testing.T) {        i := LicensingInfo{}        have := i.toMap()        want := map[string]string{            "timestamp": "",            "eck_license_level": "",            "total_managed_memory": "0.00GB",            "enterprise_resource_units": "0",        }        assert.Equal(t, want, have)    })

func TestMaxEnterpriseResourceUnits(t *testing.T) {
    r := LicensingResolver{}

    maxERUs := r.getMaxEnterpriseResourceUnits(nil)
    assert.EqualValues(t, 0, maxERUs)

    maxERUs = r.getMaxEnterpriseResourceUnits(&commonlicense.EnterpriseLicense{
        License: commonlicense.LicenseSpec{
            MaxResourceUnits: 42,
        },
    })
    assert.EqualValues(t, 42, maxERUs)

    maxERUs = r.getMaxEnterpriseResourceUnits(&commonlicense.EnterpriseLicense{
        License: commonlicense.LicenseSpec{
            MaxInstances: 10,
        },
    })
    assert.EqualValues(t, 5, maxERUs)
}

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package license

import (  
    "time"
)

ulos "github.com/elastic/cloud-on-k8s/pkg/utils/log"  
"sigs.k8s.io/controller-runtime/pkg/client"
)

// ResourceReporterFrequency defines the reporting frequency of the resource reporter  
const ResourceReporterFrequency = 2 * time.Minute

var log = ulog.Log.WithName("resource")

// ResourceReporter aggregates resources of all Elastic components managed by the operator  
// and reports them in a config map in the form of licensing information  
type ResourceReporter struct {  
    aggregator Aggregator
    licensingResolver LicensingResolver
  }

// NewResourceReporter returns a new ResourceReporter  
func NewResourceReporter(c client.Client, operatorNs string) ResourceReporter {  
    return ResourceReporter{  
        aggregator: Aggregator{  
            client: c,
        },  
        licensingResolver: LicensingResolver{  
            client: c,  
            operatorNs: operatorNs,
        },
    }
}

// Start starts to report the licensing information repeatedly at regular intervals  
func (r ResourceReporter) Start(refreshPeriod time.Duration) {  
    // report once as soon as possible to not wait the first tick  
    err := r.Report()  
    if err != nil {  
        log.Error(err, "Failed to report licensing information")
    }

    ticker := time.NewTicker(refreshPeriod)  
    for range ticker.C {  
        err := r.Report()  
        if err != nil {  
            log.Error(err, "Failed to report licensing information")
        }
    }
}

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// Report licensing information by publishing metrics and updating the config map.
func (r ResourceReporter) Report() error {
    licensingInfo, err := r.Get()
    if err != nil {
        return err
    }

    licensingInfo.ReportAsMetrics()
    return r.licensingResolver.Save(licensingInfo)
}

// Get aggregates managed resources and returns the licensing information
func (r ResourceReporter) Get() (LicensingInfo, error) {
    totalMemory, err := r.aggregator.AggregateMemory()
    if err != nil {
        return LicensingInfo{}, err
    }

    return r.licensingResolver.ToInfo(totalMemory)
}

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// +build integration

package license

import {
    "context"
    "encoding/json"
    "fmt"
    "testing"
    "time"

    "github.com/elastic/cloud-on-k8s/pkg/controller/common"
    "github.com/pkg/errors"
    "github.com/stretchr/testify/assert"
    "github.com/stretchr/testify/require"
    corev1 "k8s.io/api/core/v1"
    "k8s.io/apimachinery/pkg/api/meta"
    metav1 "k8s.io/apimachinery/pkg/apis/meta/v1"
    v1 "k8s.io/apimachinery/pkg/apis/meta/v1"
    "k8s.io/apimachinery/pkg/runtime"
    "k8s.io/apimachinery/pkg/types"
func TestMain(m *testing.M) {
    test.RunWithK8s(m)
}

func TestReconcile(t *testing.T) {
    c, stop := test.StartManager(t, func(mgr manager.Manager, p operator.Parameters) error {
        r := &ReconcileLicenses{
            Client: mgr.GetClient(),
            checker: license.MockChecker{},
        }
        c, err := common.NewController(mgr, name, r, p)
        if err != nil {
            return err
        }
        return addWatches(c, r.Client)
    }, p)
    defer stop()

    thirtyDays := 30 * 24 * time.Hour
    now := time.Now()
    startDate := now.Add(-thirtyDays)
    expiryDate := now.Add(thirtyDays)

    enterpriseLicense := license.EnterpriseLicense{
        License: license.LicenseSpec{
            UID:           "test",
            ExpiryDateInMillis: chrono.ToMillis(expiryDate),
            Type:           "enterprise",
            ClusterLicenses: []license.ElasticsearchLicense{
                License: esclient.License{
                    ExpiryDateInMillis: chrono.ToMillis(expiryDate),
                    StartDateInMillis:  chrono.ToMillis(startDate),
                    Type:               string(esclient.ElasticsearchLicenseTypePlatinum),
                    Signature:          "blah",
        }
    }
}
require.NoError(t, test.EnsureNamespace(c, "elastic-system"))

// Create the EnterpriseLicense object
require.NoError(t, CreateEnterpriseLicense(
c, types.NamespacedName{Name: "foo", Namespace: "elastic-system"},
enterpriseLicense,
))
// give the client some time to sync up
test.RetryUntilSuccess(t, func() error {
  var secs corev1.SecretList
  err := c.List(context.Background(), &secs)
  if err != nil {
    return err
  }
  if len(secs.Items) == 0 {
    return errors.New("no secrets")
  }
  return nil
})

cluster := &esv1.Elasticsearch{
  ObjectMeta: metav1.ObjectMeta{
    Name:      "foo",
    Namespace: "default",
  },
  Spec: esv1.ElasticsearchSpec{
    Version: "7.0.0",
    NodeSets: []esv1.NodeSet{
      {
        Name: "all",
        Count: 3,
      },
    },
  },
}
require.NoError(t, c.Create(context.Background(), cluster))

// test license assignment and ownership being triggered on cluster create
// test.RetryUntilSuccess(t, func() error {
//   var clusterLicense corev1.Secret
//   if err := c.Get(context.Background(), types.NamespacedName{Namespace: "default", Name: esv1.LicenseSecretName("foo")}, &clusterLicense); err != nil {
//     return err
//   }
// return nil
// })
func validateOwnerRef(obj runtime.Object, cluster metav1.ObjectMeta) error {
    metaObj, err := meta.Accessor(obj)
    if err != nil {
        return err
    }
    owners := metaObj.GetOwnerReferences()
    if len(owners) != 1 {
        return fmt.Errorf("expected exactly 1 owner, got %d", len(owners))
    }
    ownerName := owners[0].Name
    ownerKind := owners[0].Kind
    expectedKind := "Elasticsearch"
    if ownerName != cluster.Name || ownerKind != expectedKind {
        return fmt.Errorf("expected owner %s (%s), got %s (%s)", cluster.Name, expectedKind, ownerName, ownerKind)
    }
    return nil
}

// purpose of this test is mostly to understand and document the delaying queue behaviour
// can be removed or skipped when it causes trouble in CI because these tests are non-deterministic
func TestDelayingQueueInvariants(t *testing.T) {
    item := types.NamespacedName{Name: "foo", Namespace: "bar"}
    tests := []struct {
        name                 string
        adds                 func(workqueue.DelayingInterface)
        expectedObservations int
        timeout              time.Duration
    }{
        {name: "single add",
         adds: func(q workqueue.DelayingInterface) {
             q.Add(item)
         },
         expectedObservations: 1,
         timeout: 10 * time.Millisecond,
        },
        {name: "deduplication",
         adds: func(q workqueue.DelayingInterface) {
             q.Add(item)
         },
         expectedObservations: 1,
q.Add(item)
}
expectedObservations: 1,
timeout: 500 * time.Millisecond,
}
{name: "no dedup'ing when delaying",
adds: func(q workqueue.DelayingInterface) {
q.Add(item)
q.AddAfter(item, 500*time.Millisecond)
},
expectedObservations: 2,
timeout: 1 * time.Second,
}
{name: "but dedup's and updates item within the wait queue",
adds: func(q workqueue.DelayingInterface) {
q.AddAfter(item, 1*time.Hour) // schedule for an hour from now
q.AddAfter(item, 1*time.Millisecond) // update scheduled item for a millisecond from now
},
expectedObservations: 1,
timeout: 10 * time.Millisecond,
}
{name: "direct add and delayed add are independent",
adds: func(q workqueue.DelayingInterface) {
q.AddAfter(item, 10*time.Millisecond)
q.Add(item) // should work despite one item in the work queue
},
expectedObservations: 2,
timeout: 20 * time.Millisecond,
}
for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    q := workqueue.NewDelayingQueue()
    tt.adds(q)
    results := make(chan int)
    var seen int
    go func() {
      for 
      item, _ := q.Get()
      results <- 1
    q.Done(item)
    }
    collect := func() {
      for 
    }
select {
    case r := <-results:
        seen += r
    case <-time.After(tt.timeout):
        return
}
}

collect()
assert.Equal(t, tt.expectedObservations, seen)
}
}

// CreateEnterpriseLicense creates an Enterprise license wrapped in a secret.
func CreateEnterpriseLicense(c k8s.Client, key types NAMESPACEDNAME, l license.ENTERPRISELICENSE) error {
    bytes, err := json.Marshal(l)
    if err != nil {
        return errors.Wrap(err, "failed to marshal license")
    }
    return c.Create(context.Background(), &corev1.Secret{
        ObjectMeta: v1.ObjectMeta{
            Namespace: key.Namespace,
            Name:      key.Name,
            Labels:    license.LabelsForOperatorScope(l.License.Type),
        },
        Data: map[string][]byte{
            "license": bytes,
        },
    })
}

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// +build release
//go:generate go run ../../cmd/license-initializer/main.go --out zz_generated.pubkey.go

package license
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package license

import (
    "reflect"
func Test_listAffectedLicenses(t *testing.T) {
trueVal := true

type args struct {
initialObjects []runtime.Object
}
tests := []struct {
name          string
args          args
injectedError error
want          []reconcile.Request
wantErr       bool
}{

name: "happy path",
args: args{
initialObjects: []runtime.Object{
&esv1.Elasticsearch{
ObjectMeta: metav1.ObjectMeta{
Name:  "foo-cluster",
Namespace: "default",
SelfLink:   "/apis/elasticsearch.k8s.elastic.co/",
},
},
&esv1.Elasticsearch{
ObjectMeta: metav1.ObjectMeta{
Name:  "bar-cluster",
Namespace: "default",
SelfLink:   "/apis/elasticsearch.k8s.elastic.co/",
},
},
},
want: []reconcile.Request{

NamespacedName: types.NamespacedName{


Namespace: "default",
Name: "bar-cluster",
{
}
NamespacedName: types.NamespacedName{
Namespace: "default",
Name: "foo-cluster",
{
}
wantErr: false,
{
name: "list error",
args: args{},
injectedError: errors.New("listing failed"),
wantErr: trueVal,
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        client := k8s.NewFakeClient(tt.args.initialObjects...) 
        if tt.injectedError != nil {
            client = k8s.NewFailingClient(tt.injectedError)
        }
        got, err := reconcileRequestsForAllClusters(client)
        if (err != nil) != tt.wantErr {
            t.Errorf("reconcileRequestsForAllClusters() error = %v, wantErr %v", err, tt.wantErr)
            return
        }
        if !reflect.DeepEqual(got, tt.want) {
            t.Errorf("reconcileRequestsForAllClusters() = %v, want %v", got, tt.want)
        }
    })
}
Licence management scripts
==========================
This directory contains the scripts to generate licence notice and dependency information documentation.

- `generate-notice.sh`: Invoked by `make generate-notice-file` to automatically generate `NOTICE.txt` and `docs/dependencies.asciidoc`.
- `generate-image-deps.sh`: Manually invoked script to update the container image dependency information in `docs/container-image-dependencies.csv`.  

---

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generate-notice.sh

This script invokes `go-licence-detector` application which parses the output of `go list -m -json all` to produce the notice and dependency list. See the documentation at https://github.com/elastic/go-licence-detector for usage information.

### Adding Overrides

In some cases, the licence-detector will not be able to detect the licence type or infer the correct URL for a dependency. When there are issues with licences (no licence file or unknown licence type), the application will fail with an error message instructing the user to add an override to continue. The format of the overrides file is documented in the README file of the tool.

Current overrides file can be found in the `overrides` directory. Follow the existing directory layout (`licences/<domain>/<pkg>/LICENCE`) when adding new licence text overrides.

### Allowing licence types

Current list of allowed licence types can be found in the `rules.json` file. Refer to the documentation in the tool repo for more information about adding new licence types to the allowlist.

generate-image-deps.sh

This script generates licence information for the contents of the ECK container base image. As the container base image is rarely ever changed and the tool used ([Tern](https://github.com/vmware/tern)) is slow to run, this script is not invoked automatically by the build process.

To generate the dependency list (`docs/container-image-dependencies.csv`) for a particular image tag, invoke the script as follows:

```shell
IMAGE_TAG=1.0.1 ./generate-image-deps.sh
```

Note that Tern is Linux only (there are Vagrant instructions for OSX in the Tern repo) and requires sudo access to mount the procfs file system and inspect the container layers. The script will prompt for the sudo password when needed.

This script requires Docker, Python, and jq to be installed on the machine.

// Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one or more contributor license agreements. Licensed under the Elastic License; you may not use this file except in compliance with the Elastic License.
import (  
"crypto/x509"
"testing"
"time"

"github.com/elastic/cloud-on-k8s/pkg/utils/chrono"
"github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
"github.com/stretchr/testify/require"
"k8s.io/apimachinery/pkg/runtime"
"k8s.io/apimachinery/pkg/types"
)

const testNS = "test-system"

func TestChecker_EnterpriseFeaturesEnabled(t *testing.T) {  
privKey, err := x509.ParsePKCS1PrivateKey(privateKeyFixture)
require.NoError(t, err)
validLicenseFixture := licenseFixtureV3
validLicenseFixture.License.ExpiryDateInMillis = chrono.ToMillis(time.Now().Add(1 * time.Hour))

signatureBytes, err := NewSigner(privKey).Sign(validLicenseFixture)
require.NoError(t, err)

trialState, err := NewTrialState()
require.NoError(t, err)
validTrialLicenseFixture := emptyTrialLicenseFixture
require.NoError(t, trialState.InitTrialLicense(&validTrialLicenseFixture))
validLegacyTrialFixture := EnterpriseLicense{
    License: LicenseSpec{
        Type: LicenseTypeLegacyTrial,
    },
}
require.NoError(t, trialState.InitTrialLicense(&validLegacyTrialFixture))

expiredTrialLicense := validTrialLicenseFixture
expiredTrialLicense.License.ExpiryDateInMillis = chrono.ToMillis(time.Now().Add(-1 * time.Hour))
expiredTrialSignatureBytes, err := NewSigner(trialState.privateKey).Sign(expiredTrialLicense)
require.NoError(t, err)

statusSecret, err := ExpectedTrialStatus(testNS, types.NamespacedName{}, trialState)
require.NoError(t, err)

type fields struct {  
    initialObjects []runtime.Object
    publicKey      []byte
}
tests := []struct {
    name    string
    fields  fields
    want    bool
    wantErr bool
}

// name: "valid license: OK",
fields: fields{
    initialObjects: asRuntimeObjects(validLicenseFixture, signatureBytes),
    publicKey: publicKeyBytesFixture(t),
}

// name: "valid trial: OK",
fields: fields{
    initialObjects: []runtime.Object{asRuntimeObject(validTrialLicenseFixture), &statusSecret},
}

// name: "valid legacy trial: OK",
fields: fields{
    initialObjects: []runtime.Object{asRuntimeObject(validTrialLicenseFixture), &statusSecret},
}

// name: "invalid trial: FAIL",
fields: fields{
    initialObjects: []runtime.Object{asRuntimeObject(emptyTrialLicenseFixture), &statusSecret},
}

// name: "expired trial: FAIL",
fields: fields{
    initialObjects: append(asRuntimeObjects(expiredTrialLicense, expiredTrialSignatureBytes), &statusSecret),
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        lc := &checker{
            k8sClient:         k8s.NewFakeClient(tt.fields.initialObjects...),
            operatorNamespace: testNS,
            publicKey:         tt.fields.publicKey,
        }
        got, err := lc.EnterpriseFeaturesEnabled()
        if (err != nil) != tt.wantErr {
            t.Errorf("Checker.EnterpriseFeaturesEnabled() err = %v, wantErr %v", err, tt.wantErr)
        }
        if got != tt.want {
            t.Errorf("Checker.EnterpriseFeaturesEnabled() = %v, want %v", got, tt.want)
        }
    })
}

func Test_CurrentEnterpriseLicense(t *testing.T) {
    privKey, err := x509.ParsePKCS1PrivateKey(privateKeyFixture)
    require.NoError(t, err)
    validLicenseFixture := licenseFixtureV3
    validLicenseFixture.License.ExpiryDateInMillis = chrono.ToMillis(time.Now().Add(1 * time.Hour))
    signatureBytes, err := NewSigner(privKey).Sign(validLicenseFixture)
    require.NoError(t, err)
    validLicense := asRuntimeObjects(validLicenseFixture, signatureBytes)
    trialState, err := NewTrialState()
    require.NoError(t, err)
    validTrialLicenseFixture := emptyTrialLicenseFixture

require.NoError(t, trialState.InitTrialLicense(&validTrialLicenseFixture))
validTrialLicense := asRuntimeObject(validTrialLicenseFixture)

statusSecret, err := ExpectedTrialStatus(testNS, types.NamespacedName{}, trialState)
require.NoError(t, err)

type fields struct {
  initialObjects []runtime.Object
  operatorNamespace string
  publicKey       []byte
}

tests := []struct {
  name     string
  fields   fields
  want     bool
  wantErr  bool
  wantType OperatorLicenseType
}{
  name: "get valid enterprise license: OK",
  fields: fields{
    initialObjects:   validLicense,
    operatorNamespace: "test-system",
    publicKey:        publicKeyBytesFixture(t),
  },
  want:   true,
  wantType: LicenseTypeEnterprise,
  wantErr: false,
},

{name: "get valid trial enterprise license: OK",
 fields: fields{
 initialObjects:  []runtime.Object{validTrialLicense, &statusSecret},
 operatorNamespace: "test-system",
 publicKey:      publicKeyBytesFixture(t),
 },
 want: true,
 wantType: LicenseTypeEnterpriseTrial,
 wantErr: false,
},

{name: "get valid enterprise license among two licenses: OK",
 fields: fields{
 initialObjects: append(validLicense, validTrialLicense),
 operatorNamespace: "test-system",
 publicKey: publicKeyBytesFixture(t),
 },
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        lc := &checker{
            k8sClient: k8s.NewFakeClient(tt.fields.initialObjects...),
            operatorNamespace: tt.fields.operatorNamespace,
            publicKey: tt.fields.publicKey,
        }
        got, err := lc.CurrentEnterpriseLicense()
        if (err != nil) != tt.wantErr {
            t.Errorf("Checker.CurrentEnterpriseLicense() err = %v, wantErr %v", err, tt.wantErr)
        }
        if tt.want != (got != nil) {
            t.Errorf("Checker.CurrentEnterpriseLicense() = %v, want %v", got, tt.want)
        }
    })
}

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package license

import (
func EnterpriseLicensesOrErrors(c k8s.Client) ([]EnterpriseLicense, error) {
    licenseList := corev1.SecretList{}
    matchingLabels := NewLicenseByScopeSelector(LicenseScopeOperator)
    err := c.List(context.Background(), &licenseList, matchingLabels)
    if err != nil {
        return nil, []error{err}
    }
    licenses := []EnterpriseLicense
    errors := []error{}
    for _, license := range licenseList.Items {
        ls := license
        parsed, err := ParseEnterpriseLicense(ls.Data)
        if err != nil {
            errors = append(errors, pkgerrors.Wrapf(err, "unparseable license in %v", k8s.ExtractNamespacedName(&ls)))
        } else {
            licenses = append(licenses, parsed)
        }
    }
    return licenses, utilerrors.NewAggregate(errors)
}

func EnterpriseLicenses(c k8s.Client) ([]EnterpriseLicense, error) {
    licenses, errors := EnterpriseLicensesOrErrors(c)
    return licenses, utilerrors.NewAggregate(errors)
}

func TrialLicense(c k8s.Client, nsn types.NamespacedName) (corev1.Secret, EnterpriseLicense, error) {
    var secret corev1.Secret
    err := c.Get(context.Background(), nsn, &secret)
    if err != nil {
        return corev1.Secret{}, EnterpriseLicense{}, err
    }
    return secret, parsed, err
}
if len(secret.Data) == 0 {
    // new trial license
    return secret, EnterpriseLicense{
        License: LicenseSpec{
            Type: LicenseTypeEnterpriseTrial,
        },
    }, nil
}

license, err := ParseEnterpriseLicense(secret.Data)
if err != nil {
    return secret, EnterpriseLicense{}, err
}
if !license.IsTrial() {
    return secret, EnterpriseLicense{}, pkgerrors.Errorf("%v is not a trial license", nsn)
}
return secret, license, nil

// CreateTrialLicense creates an empty secret with the correct metadata to start an enterprise trial
func CreateTrialLicense(c k8s.Client, nsn types.NamespacedName) error {
    return c.Create(context.Background(), &corev1.Secret{
        ObjectMeta: v1.ObjectMeta{
            Name:      nsn.Name,
            Namespace: nsn.Namespace,
            Labels: map[string]string{
                common.TypeLabelName: Type,
                LicenseLabelType:     string(LicenseTypeEnterpriseTrial),
            },
            Annotations: map[string]string{
                EULAAnnotation: EULAAcceptedValue,
            },
        },
    })
}

// UpdateEnterpriseLicense updates an Enterprise license wrapped in a secret.
func UpdateEnterpriseLicense(c k8s.Client, secret corev1.Secret, l EnterpriseLicense) error {
    bytes, err := json.Marshal(l)
    if err != nil {
        return pkgerrors.Wrap(err, "failed to marshal license")
    }
    secret.Data = map[string][]byte{
        FileName: bytes,
    }
    secret.Labels = maps.Merge(secret.Labels, LabelsForOperatorScope(l.License.Type))
    return c.Update(context.Background(), &secret)
}
package license

import (
    "sort"
    "time"
    "github.com/elastic/cloud-on-k8s/pkg/controller/common/version"
    "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
)

type licenseWithTimeLeft struct {
    license   client.License
    parentUID string
    remaining time.Duration
}

// BestMatch tries to find the best matching license given a list of enterprise licenses based on the
// the minimal Elasticsearch version in the cluster, the desired license type and the remaining validity
// period of the license.
// Returns the license, parent license UID, a bool indicating a match was found and an optional error.
func BestMatch(
    minVersion *version.Version,
    licenses []EnterpriseLicense,
    filter func(EnterpriseLicense) (bool, error),
) (client.License, string, bool) {
    return bestMatchAt(time.Now(), minVersion, licenses, filter)
}

func bestMatchAt(
    now time.Time,
    minVersion *version.Version,
    licenses []EnterpriseLicense,
    filter func(EnterpriseLicense) (bool, error),
) (client.License, string, bool) {
    var license client.License
    var parentMeta string
    if len(licenses) == 0 {
        // no license at all
        return license, parentMeta, false
    }
    valid := filterValid(now, minVersion, licenses, filter)
    if len(valid) == 0 {
        log.Info("No matching license found", "num_licenses", len(licenses))
        return license, parentMeta, false
    }
sort.Slice(valid, func(i, j int) bool {
    t1, t2 := client.ElasticsearchLicenseTypeOrder[client.ElasticsearchLicenseType(valid[i].license.Type)],
    client.ElasticsearchLicenseTypeOrder[client.ElasticsearchLicenseType(valid[j].license.Type)]
    if t1 != t2 { // sort by type
        return t1 < t2
    }
    // and by remaining time
    return valid[i].remaining < valid[j].remaining
})
best := valid[len(valid)-1]
return best.license, best.parentUID, true
}

func filterValid(now time.Time, minVersion *version.Version, licenses []EnterpriseLicense, filter func(EnterpriseLicense) (bool, error)) []licenseWithTimeLeft {
    filtered := make([]licenseWithTimeLeft, 0)
    for _, el := range licenses {
        if !el.IsValid(now) {
            log.V(1).Info("Discarding invalid Enterprise license (validity period)", "eck_license", el.License.UID)
            continue
        }
        ok, err := filter(el)
        if err != nil {
            log.Error(err, "while checking license validity")
            continue
        }
        if !ok {
            log.V(1).Info("Discarding invalid Enterprise license (signature)", "eck_license", el.License.UID)
            continue
        }
        // Shortcut if it's an ECK managed trial license
        if el.IsECKManagedTrial() {
            filtered = append(filtered, licenseWithTimeLeft{
                // For a trial, only the type is used, the license will be generated by ES
                license: client.License{
                    Type: string(client.ElasticsearchLicenseTypeTrial),
                },
                parentUID: el.License.UID,
                remaining: el.ExpiryTime().Sub(now),
            })
            continue
        }
        for _, l := range el.License.ClusterLicenses {
            if l.License.IsValid(now) && l.License.IsSupported(minVersion) {
                filtered = append(filtered, licenseWithTimeLeft{
                    // For a trial, only the type is used, the license will be generated by ES
                    license: client.License{
                        Type: string(client.ElasticsearchLicenseTypeTrial),
                    },
                    parentUID: el.License.UID,
                    remaining: l.ExpiryTime().Sub(now),
                })
            }
        }
    }
    return filtered
}
filtered = append(filtered, licenseWithTimeLeft{
    license:  l.License,
    parentUID: el.License.UID,
    remaining: l.License.ExpiryTime().Sub(now),
})
}
}
}
return filtered
}

# 10. License checks

* Status: proposed
* Date: 2019-04-07

Technical Story: tbd

### Context and Problem Statement

We want to control behaviour in the operators based on the current
Enterprise license applied to the operator. An example for conditional
behaviour are any commercial features available to licensed operators only.

### Decision Drivers

* we currently suppport multiple deployment options for the operator: single namespace and multi-namespace.
* for the activation of commerical features we need a minimal amount of protection against tampering.
* we see admission controllers as optional means of verification and don't want to rely on them for functionality that
does not exist in other places as well.
* we regard licenses as somewhat sensitive data that should not be shared freely across all namespaces and
controllers.

### Considered Options

1. Configure license statically at operator startup (e.g. via shared secret bound in all instances) or via simple flag for
trial mode
2. Configure license dynamically and use admission control to label resources (licensed-until timestamp)
3. Create a shared secret ("ControllerLicense") in every relevant namespace with tamper proof evidence of the
current Enterprise license

### Decision Outcome

Option 3.

### Additional design details
Create a new CRD e.g. called 'ControllerLicense' that will be created by the (global) license controller. It CAN use the same signer we use for the Enterprise licenses but a different installation specific private/public key pair.

The public key CAN be shared with the namespace operator at installation time. The individual controllers that are interested in license checks will then verify any 'ControllerLicenses' appearing in their namespace using that key and MUST toggle commercial features only if a valid license is present.

The license controller MUST create controller licenses only when either a valid Enterprise license or a valid Enterprise trial license is present in the system. It CAN issue controller licenses with shorter lifetimes than the Enterprise license and auto-extend them as needed to limit the impact of accidental license leaks. But license leaks are currently understood to be much less a concern than cluster licenses leaks as controller licenses have no validity outside of the operator installation that has created them.

```
+--------------------------------+   +----------------------------------+
  |                                |   |                                  |
  |  elastic-system                |   |       foo-system                 |
  |                                |   |                                  |
  |                                |   |                                  |
  |                                |   |                                  |
  |             +------------+     |   |        +-------------+           |
  |             |            |     |   |        |             |           |
  |             |  license   |     |   |        |    foo      |           |
  |             |  ctrl      |     |   |        |    ctrl     |           |
  |             |            |     |   |        |             |           |
  |             +-+-----+--+-+     |   |        ++-----------++           |
  |               ^     |  |       |   |         ^           ^            |
  |               |     |  |       |   |         |           |            |
  |               |     |  |       |   |         |           |            |
  |   +-----------+-+   |  |       |   |   +-----+------+  +-+---------+  |
  |   |             |   |  |       |   |   |            |  |           |  |
  |   |  Enterprise |   |  |       |   |   | Controller |  |  PubKey   |  |
  |   |  License    |   |  +-------------->+ License    |  |           |  |
  |   |             |   |  creates |   |   |            |  |           |  |
  |   +-------------+   |          |   |   +------------+  +------+----+  |
  |                     |          |   |                          ^       |
  |                     |          |   |                          |       |
  |                     |          |   |   creates                |       |
  |                     +-----------------------------------------+       |
  |                                |   |                                  |
  +--------------------------------+   +----------------------------------+
```
Due to restrictions in controller runtime the license + secret would need to be deployed into the managed namespace not into the control plane namespace. Unless of course we run everything in one namespace anyway or we implement a custom client that has access to the control plane namespace of the namespace operator (the latter is the underlying assumption for the graph above).

### Positive Consequences

* Does not give every namespace operator access to the full Enterprise license.
* Allows to issue short term controller licenses to limit impact of exposure.
* Does allow relative protection against tampering.

### Negative Consequences

* Effort and complexity of the implementation.
* The key/pair to verify the controller license can be manipulated. The global license controller can to some extend counteract that by deleting/recreating the correct license and public key resources.

## Pros and Cons of the other Options

### Statically configured license

* Good, because it simplifies the decision for the trial vs. basic decision on cluster creation (but: we might not need that at all if we start with basic by default).
* Good, because it is independent of the deployment scenario chosen for the operator.
* Bad, because it does not solve the burden of proof for commercial feature enablement.
  We would still need a copy of the actual license in all namespaces that have controllers with commercial features (currently only the global one).
* Bad, because it would require an operator restart to update license information.

### Dynamically configured license and admission controller

* Good, because it solves the problem of propagating license status from a global operator/namespace to the individual namespace operators.
* Bad, because it is fairly complex.
* Bad, because it makes the admission controller a central and non-optional component for the operator.
* Bad, because it does not offer a convincing solution to update expiry information or to the problem that we might want to re-label resources if new licenses become available.
## Links

* builds on top of [ADR-0004](0004-licensing.md)
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```go
package license

import {
  "context"
  "net/http"
  "strings"
  "testing"

  "github.com/pkg/errors"
  "github.com/stretchr/testify/require"

  corev1 "k8s.io/api/core/v1"
  metav1 "k8s.io/apimachinery/pkg/apis/meta/v1"
  "k8s.io/apimachinery/pkg/runtime"
  "k8s.io/apimachinery/pkg/types"
  "sigs.k8s.io/controller-runtime/pkg/client"

  esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
  "github.com/elastic/cloud-on-k8s/pkg/controller/common/version"
  esclient "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
  fixtures "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client/test_fixtures"
  "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
}

func Test_updateLicense(t *testing.T) {
  enterpriseLicense := esclient.License{
    UID:  "enterprise-license",
    Type: string(esclient.ElasticsearchLicenseTypeEnterprise),
  }
  type args struct {
    current esclient.License
    desired esclient.License
  }
  tests := []struct {
    name     string
    args     args
    reqFn    esclient.RoundTripFunc
    wantErr  bool
  }{
    name: "error: HTTP error",
    wantErr: true,
  }
```
args: args{
desired: enterpriseLicense,
},
return esclient.NewMockResponse(400, req, "")
},
{
name: "error: ES error",
wantErr: true,
args: args{
desired: enterpriseLicense,
},
return esclient.NewMockResponse(200,
req,
fixtures.LicenseFailedUpdateResponseSample,
)
},
},
{
name: "happy path",
args: args{
desired: enterpriseLicense,
},
return esclient.NewMockResponse(200,
req,
fixtures.LicenseUpdateResponseSample,
)
},
},
{
name: "start a trial",
args: args{
desired: esclient.License{
Type: string(esclient.ElasticsearchLicenseTypeTrial),
},
},
if strings.Contains(req.URL.Path, "start_trial") {
return esclient.NewMockResponse(200, req, `{"acknowledged": true, "trial_started": true}`)
} panic("should only call start_trial")
},
wantErr: false,
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        c := esclient.NewMockClient(version.MustParse("6.8.0"), tt.reqFn)
        if err := updateLicense(context.Background(), types.NamespacedName{}, c, tt.args.current, tt.args.desired); (err != nil) != tt.wantErr {
            t.Errorf("updateLicense() error = %v, wantErr %v", err, tt.wantErr)
        }
    })
})
}

func Test_applyLinkedLicense(t *testing.T) {
    clusterName := types.NamespacedName{
        Name: "test",
        Namespace: "default",
    }
    tests := []struct {
        name     string
        initialObjs  []runtime.Object
        currentLicense esclient.License
        errors         map[client.ObjectKey]error
        wantErr     bool
        clientAssertions func(updater fakeLicenseUpdater)
    }{
        name: "happy path",
        wantErr: false,
        initialObjs: []runtime.Object{
            &corev1.Secret{
                ObjectMeta: metav1.ObjectMeta{
                    Name: esv1.LicenseSecretName("test"),
                    Namespace: "default",
                }
            },
        }
    }
    for _, tt := range tests { // Test Apply Linked License
        t.Run(tt.name, func(t *testing.T) {
            c := esclient.NewMockClient(version.MustParse("6.8.0"), tt.reqFn)
            if err := updateLicense(context.Background(), types.NamespacedName{}, c, tt.currentLicense, tt.desiredLicense); (err != nil) != tt.wantErr {
                t.Errorf("updateLicense() error = %v, wantErr %v", err, tt.wantErr)
            }
        })
    }
}
Data: map[string][]byte{
    "anything": []byte(fixtures.LicenseSample),
}

clientAssertions: func(updater fakeLicenseUpdater) {
    require.True(t, updater.updateLicenseCalled, "should update license")
}

{
    name: "no error: no license found but stack has an enterprise license",
    wantErr: false,
    currentLicense: esclient.License{Type: string(esclient.ElasticsearchLicenseTypeEnterprise)},
    clientAssertions: func(updater fakeLicenseUpdater) {
        require.True(t, updater.startBasicCalled, "should call start_basic to remove the license")
    }
}

{
    name: "no error: no license found, stack already in basic license",
    wantErr: false,
    currentLicense: esclient.License{Type: string(esclient.ElasticsearchLicenseTypeBasic)},
    clientAssertions: func(updater fakeLicenseUpdater) {
        require.False(t, updater.startBasicCalled, "should not call start_basic if already basic")
    }
}

{
    name: "no error: no license found but tolerate a cluster level trial",
    wantErr: false,
    currentLicense: esclient.License{Type: string(esclient.ElasticsearchLicenseTypeTrial)},
    clientAssertions: func(updater fakeLicenseUpdater) {
        require.False(t, updater.startBasicCalled, "should not call start_basic")
    }
}

{
    name: "error: empty license",
    wantErr: true,
    initialObjs: []runtime.Object{
        &corev1.Secret{
            ObjectMeta: metav1.ObjectMeta{
                Name: esv1.LicenseSecretName("test"),
                Namespace: "default",
            },
        }
    }
}

{
    name: "error: invalid license json",
}
wantErr: true,

initialObjs: []runtime.Object{
  &corev1.Secret{
    ObjectMeta: metav1.ObjectMeta{
      Name:      esv1.LicenseSecretName("test"),
      Namespace: "default",
    },
    Data: map[string][]byte{
      "anything2": {},
    },
  },
},

{name: "error: request error",
  wantErr: true,
  errors: map[client.ObjectKey]error{
    types.NamespacedName{
      Namespace: clusterName.Namespace,
      Name:      esv1.LicenseSecretName("test"),
    }: errors.New("boom"),
  },
}

for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    c := &fakeClient{
      Client: k8s.NewFakeClient(tt.initialObjs...),
      errors: tt.errors,
    }
    updater := fakeLicenseUpdater{license: tt.currentLicense}
    if err := applyLinkedLicense(
      context.Background(),
      c,
      clusterName,
      &updater,
    ); (err != nil) != tt.wantErr {
      t.Errorf("applyLinkedLicense() error = %v, wantErr %v", err, tt.wantErr)
    }
    if tt.clientAssertions != nil {
      tt.clientAssertions(updater)
    }
  })
}

type fakeLicenseUpdater struct {
  license esclient.License
}
startBasicCalled bool
updateLicenseCalled bool
}

func (f *fakeLicenseUpdater) StartTrial(ctx context.Context) (esclient.StartTrialResponse, error) {
    return esclient.StartTrialResponse{
        Acknowledged: true,
        TrialWasStarted: true,
    }, nil
}

func (f *fakeLicenseUpdater) GetLicense(ctx context.Context) (esclient.License, error) {
    return f.license, nil
}

func (f *fakeLicenseUpdater) UpdateLicense(ctx context.Context, licenses esclient.LicenseUpdateRequest) (esclient.LicenseUpdateResponse, error) {
    f.updateLicenseCalled = true
    return esclient.LicenseUpdateResponse{
        Acknowledged: true,
        LicenseStatus: "valid",
    }, nil
}

func (f *fakeLicenseUpdater) StartBasic(ctx context.Context) (esclient.StartBasicResponse, error) {
    f.startBasicCalled = true
    return esclient.StartBasicResponse{}, nil
}

var _ esclient.LicenseClient = &fakeLicenseUpdater{}

type fakeClient struct {
    k8s.Client
    errors map[client.ObjectKey]error
}

func (f *fakeClient) Get(ctx context.Context, key client.ObjectKey, obj client.Object) error {
    err := f.errors[key]
    if err != nil {
        return err
    }
    return f.Client.Get(context.Background(), key, obj)
}

var _ k8s.Client = &fakeClient{}

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package license

import (  "io/ioutil"  "testing"
  "github.com/go-test/deep"  "github.com/stretchr/testify/require"
)

func TestParseEnterpriseLicenses(t *testing.T) {
  good, err := ioutil.ReadFile("testdata/test-license.json")
  require.NoError(t, err)
  bad, err := ioutil.ReadFile("testdata/test-error.json")
  require.NoError(t, err)

  type args struct {
    raw map[string][]byte
  }
  tests := []struct {
    name   string
    args   args
    want   EnterpriseLicense
    wantErr bool
  }{
{  
  name: "single license",
  args: args{  
    raw: map[string][]byte{  
      FileName: good,
    },
  },
  want: expectedLicenseSpec,
  wantErr: false,
},

{  
  name: "malformed license",
  args: args{  
    raw: map[string][]byte{  
      FileName: bad,
    },
  },
  wantErr: true,
},

{  
  name: "different key",
  args: args{  
    raw: map[string][]byte{  
      "": good,
    },
  },
  want: expectedLicenseSpec,
  wantErr: false,
},
}

for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    got, err := ParseEnterpriseLicense(tt.args.raw)
    if (err != nil) != tt.wantErr {
      t.Errorf("ParseEnterpriseLicense() error = %v, wantErr %v", err, tt.wantErr)
      return
    }
    if diff := deep.Equal(got, tt.want); diff != nil {
      t.Errorf(diff)
    }
  })
}

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package license
// OperatorLicenseType is the type of operator level license a resource is describing.
type OperatorLicenseType string

const (
    LicenseTypeEnterprise     OperatorLicenseType = "enterprise"
    LicenseTypeEnterpriseTrial OperatorLicenseType = "enterprise_trial"
    // LicenseTypeLegacyTrial earlier versions of ECK used this as the trial identifier
    LicenseTypeLegacyTrial OperatorLicenseType = "enterprise-trial"
)

type ElasticsearchLicense struct {
    License client.License `json:"license"
}

type EnterpriseLicense struct {
    License LicenseSpec `json:"license"
}

type LicenseSpec struct {
    Status          string `json:"status,omitempty"
    UID             string `json:"uid"
    Type            OperatorLicenseType `json:"type"
    IssueDate       *time.Time `json:"issue_date,omitempty"
    IssueDateInMillis int64 `json:"issue_date_in_millis"
    ExpiryDate      *time.Time `json:"expiry_date,omitempty"
    ExpiryDateInMillis int64 `json:"expiry_date_in_millis"
    MaxInstances    int `json:"max_instances,omitempty"
    MaxResourceUnits int `json:"max_resource_units,omitempty"
    IssuedTo        string `json:"issued_to"
    Issuer          string `json:"issuer"
    StartDateInMillis int64 `json:"start_date_in_millis"
    Signature       string `json:"signature,omitempty"
    ClusterLicenses []ElasticsearchLicense `json:"cluster_licenses"
    Version         int // not marshalled but part of the signature
}

// EnterpriseLicenseTypeOrder license types mapped to ints in increasing order of feature sets for sorting purposes.
var EnterpriseLicenseTypeOrder = map[OperatorLicenseType]int{
    LicenseTypeLegacyTrial:  0,
    LicenseTypeEnterpriseTrial: 1,
LicenseTypeEnterprise: 2,
}

// StartTime is the date as of which this license is valid.
func (l EnterpriseLicense) StartTime() time.Time {
    return time.Unix(0, l.License.StartDateInMillis*int64(time.Millisecond))
}

// ExpiryTime is the date as of which the license is no longer valid.
func (l EnterpriseLicense) ExpiryTime() time.Time {
    return time.Unix(0, l.License.ExpiryDateInMillis*int64(time.Millisecond))
}

// IsValid returns true if the license is still valid at the given point in time.
func (l EnterpriseLicense) IsValid(instant time.Time) bool {
    return (l.StartTime().Equal(instant) || l.StartTime().Before(instant)) &&
    l.ExpiryTime().After(instant)
}

// IsTrial returns true if this is a self-generated trial license.
func (l EnterpriseLicense) IsTrial() bool {
    return l.License.Type == LicenseTypeEnterpriseTrial || l.License.Type == LicenseTypeLegacyTrial
}

// IsECKManagedTrial returns true if this license has been issued by ECK or if this is an empty license that ECK can
// fill in.
func (l EnterpriseLicense) IsECKManagedTrial() bool {
    return l.IsTrial() && (l.License.Issuer == ECKLicenseIssuer || l.License.Issuer == "")
}

// IsMissingFields returns an error if any of the required fields are missing. Expected state on trial licenses.
func (l EnterpriseLicense) IsMissingFields() error {
    var missing []string
    if l.License.Issuer == "" {
        missing = append(missing, "spec.issuer")
    }
    if l.License.IssuedTo == "" {
        missing = append(missing, "spec.issued_to")
    }
    if l.License.ExpiryDateInMillis == 0 {
        missing = append(missing, "spec.expiry_date_in_millis")
    }
    if l.License.StartDateInMillis == 0 {
        missing = append(missing, "spec.start_date_in_millis")
    }
    if l.License.IssueDateInMillis == 0 {
        missing = append(missing, "spec.issue_date_in_millis")
    }
    return
}
if l.License.UID == "" {
    missing = append(missing, "spec.uid")
}
if len(missing) > 0 {
    return pkgerrors.Errorf("required fields are missing: %v", missing)
}
return nil

// LicenseStatus expresses the validity status of a license.
type LicenseStatus string

// Supported LicenseStatus values.
const (
    LicenseStatusValid   LicenseStatus = "Valid"
    LicenseStatusExpired LicenseStatus = "Expired"
    LicenseStatusInvalid LicenseStatus = "Invalid"
)

var _ Signable = &EnterpriseLicense{ }

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// +build integration

package trial

import (
    "bytes"
    "context"
    "fmt"
    "testing"
    "time"

    "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"
    "github.com/elastic/cloud-on-k8s/pkg/controller/common/operator"
    "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
    "github.com/elastic/cloud-on-k8s/pkg/utils/test"
    "github.com/pkg/errors"
    "github.com/stretchr/testify/assert"
    "github.com/stretchr/testify/require"
    corev1 "k8s.io/api/core/v1"
    "k8s.io/apimachinery/pkg/types"
)

const operatorNs = "elastic-system"
var testLicenseNSN = types.NamespacedName{
    Namespace: operatorNs,
    Name:      "eck-trial-license",
}

func TestMain(m *testing.M) {
    test.RunWithK8s(m)
}

func TestReconcile(t *testing.T) {
    c, stop := test.StartManager(t, Add, operator.Parameters{OperatorNamespace: operatorNs})
    defer stop()
    now := time.Now()
    require.NoError(t, test.EnsureNamespace(c, operatorNs))

    // Create trial initialisation is controlled via config
    require.NoError(t, license.CreateTrialLicense(c, testLicenseNSN))
    checker := license.NewLicenseChecker(c, operatorNs)
    // test trial initialisation on create
    validateTrialStatus(t, checker, true)
    licenses, err := license.EnterpriseLicenses(c)
    require.NoError(t, err)
    require.Equal(t, 1, len(licenses))
    trialLicense := licenses[0]
    require.True(t, trialLicense.IsTrial())

    validateTrialDuration(t, trialLicense, now, time.Minute)

    // tamper with the trial status
    var trialStatus corev1.Secret
    trialStatusKey := types.NamespacedName{
        Namespace: operatorNs,
        Name:      license.TrialStatusSecretKey,
    }
    // retry in case of edit conflict with reconciliation loop
    test.RetryUntilSuccess(t, func() error {
        require.NoError(t, c.Get(context.Background(), trialStatusKey, &trialStatus))
        trialStatus.Data[license.TrialPubkeyKey] = []byte("foobar")
        return c.Update(context.Background(), &trialStatus)
    })
    test.RetryUntilSuccess(t, func() error {
        require.NoError(t, c.Get(context.Background(), trialStatusKey, &trialStatus))
        if bytes.Equal(trialStatus.Data[license.TrialPubkeyKey], []byte("foobar")) {
            return errors.New("Manipulated secret has not been corrected")
        }
        return nil
    })
// Delete the trial license
require.NoError(t, deleteTrial(c))
// recreate it with modified validity + 1 year
require.NoError(t, license.CreateTrialLicense(c, testLicenseNSN))
// expect an invalid license
validateTrialStatus(t, checker, false)
// ClusterLicense should be GC'ed but can't be tested here

func validateTrialStatus(t *testing.T, checker license.Checker, expected bool) {
    // test trial initialisation on create
    test.RetryUntilSuccess(t, func() error {
        trialEnabled, err := checker.EnterpriseFeaturesEnabled()
        if err != nil {
            return err
        }
        if trialEnabled != expected {
            return fmt.Errorf("expected licensed features to be enabled [%v] but was [%v]", expected, trialEnabled)
        }
        return nil
    })
}

func validateTrialDuration(t *testing.T, license license.EnterpriseLicense, now time.Time, precision time.Duration) {
    startDelta := license.StartTime().Sub(now)
    assert.True(t, startDelta <= precision, "start date should be within %v, but was %v", precision, startDelta)
    endDelta := license.ExpiryTime().Sub(now.Add(30 * 24 * time.Hour))
    assert.True(t, endDelta <= precision, "end date should be within %v, but was %v", precision, endDelta)
}

func deleteTrial(c k8s.Client) error {
    var trialLicense corev1.Secret
    if err := c.Get(context.Background(), testLicenseNSN, &trialLicense); err != nil {
        return err
    }
    return c.Delete(context.Background(), &trialLicense)
}

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package license

import (
    "context"
)
esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
esclient "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
"github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
)

// Reconcile reconciles the current Elasticsearch license with the desired one.
func Reconcile(
    ctx context.Context,
    c k8s.Client,
    esCluster esv1.Elasticsearch,
    clusterClient esclient.Client,
) error {
    clusterName := k8s.ExtractNamespacedName(&esCluster)
    return applyLinkedLicense(ctx, c, clusterName, clusterClient)
}

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// +build integration

package main

import {
    "bytes"
    "io/ioutil"
    "path/filepath"
    "testing"

    "github.com/stretchr/testify/require"
}

func Test_generateSrc(t *testing.T) {
    path := filepath.Join("testdata", "expected.src")
    expectedBytes, err := ioutil.ReadFile(path)
    require.NoError(t, err)
    input := filepath.Join("testdata", "test.key")
    var out bytes.Buffer
    generateSrc(input, &out)
    require.Equal(t, expectedBytes, out.Bytes())
}

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// +build !release
package license

var publicKeyBytes []byte
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// +build es e2e
package es
import (
    "crypto/rsa"
    "crypto/x509"
    "io/ioutil"
    "testing"
    "time"
    "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
    "github.com/elastic/cloud-on-k8s/test/e2e/test"
    "github.com/elastic/cloud-on-k8s/test/e2e/test/elasticsearch"
    "github.com/stretchr/testify/require"
)

func TestEnterpriseLicenseSingle(t *testing.T) {
    // only execute this test if we have a test license to work with
    if test.Ctx().TestLicense == "" {
        t.SkipNow()
    }

    licenseBytes, err := ioutil.ReadFile(test.Ctx().TestLicense)
    require.NoError(t, err)

    k := test.NewK8sClientOrFatal()

    // create a single node cluster
        WithESMasterDataNodes(1, elasticsearch.DefaultResources)
    licenseTestContext := elasticsearch.NewLicenseTestContext(k, esBuilder.Elasticsearch)
    licenseSecretName := "eck-e2e-test-license" // nolint
    updatedLicenseSecretName := "eck-e2e-test-license2" // nolint

    licenseLevelWatch := test.NewWatcher(        // watch license level never drops to basic",
        1*time.Second,
        func(k *test.K8sClient, t *testing.T) {
            require.NoError(t, licenseTestContext.CheckElasticsearchLicenseFn(
client.ElasticsearchLicenseTypeGold,
client.ElasticsearchLicenseTypePlatinum,
)
},
test.NOOPCheck,
)
test.StepList{ }
WithSteps(esBuilder.InitTestSteps(k)).
// make sure no left over license is still around
WithStep(licenseTestContext.DeleteAllEnterpriseLicenseSecrets()).
WithSteps(esBuilder.CreationTestSteps(k)).
WithSteps(test.CheckTestSteps(esBuilder, k)).
WithStep(licenseTestContext.Init()).
WithSteps(test.StepList{
licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic),
licenseTestContext.CreateEnterpriseLicenseSecret(licenseSecretName, licenseBytes),
// enterprise license can contain all kinds of cluster licenses so we are a bit lenient here and expect either gold or
platinum
licenseTestContext.CheckElasticsearchLicense(
client.ElasticsearchLicenseTypeGold,
client.ElasticsearchLicenseTypePlatinum,
),
// but we don't expect to go below that level until we delete the last license secret
licenseLevelWatch.StartStep(k),
// simulate an update by creating a second license secret
licenseTestContext.CreateEnterpriseLicenseSecret(updatedLicenseSecretName, licenseBytes),
// license level should stay on platinum/gold/enterprise even if we now remove the original secret
licenseTestContext.DeleteEnterpriseLicenseSecret(licenseSecretName),
licenseLevelWatch.StopStep(k),
// and now revert back to basic
licenseTestContext.DeleteEnterpriseLicenseSecret(updatedLicenseSecretName),
licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic),
}).
WithSteps(esBuilder.DeletionTestSteps(k)).
RunSequential(t)
}

// TestEnterpriseTrialLicense this test can be run exactly once per installation!
func TestEnterpriseTrialLicense(t *testing.T) {
// only execute this test if we have a test license to work with
// but do not execute if we have a private key to generate trial extensions (see TestEnterpriseTrialExtension)
if test.Ctx().TestLicense == "" || test.Ctx().TestLicensePKeyPath != "" {
t.SkipNow()
}

licenseBytes, err := ioutil.ReadFile(test.Ctx().TestLicense)
require.NoError(t, err)
WithESMasterDataNodes(1, elasticsearch.DefaultResources)


trialSecretName := "eck-trial"
licenseSecretName := "eck-license"
initStepsFn := func(k *test.K8sClient) test.StepList {
    return test.StepList{
        licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
        licenseTestContext.CreateEnterpriseTrialLicenseSecret(trialSecretName),
    }
}

stepsFn := func(k *test.K8sClient) test.StepList {
    return test.StepList{
        licenseTestContext.Init(),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeTrial),
        licenseTestContext.CheckEnterpriseTrialLicenseValid(trialSecretName),
        licenseTestContext.CreateEnterpriseLicenseSecret(licenseSecretName, licenseBytes),
        licenseTestContext.CheckElasticsearchLicense( client.ElasticsearchLicenseTypeGold,
            client.ElasticsearchLicenseTypePlatinum,
        ),
        licenseTestContext.DeleteEnterpriseLicenseSecret(trialSecretName),
        licenseTestContext.DeleteEnterpriseLicenseSecret(licenseSecretName),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic),
        licenseTestContext.CreateEnterpriseTrialLicenseSecret(trialSecretName),
        licenseTestContext.CheckEnterpriseTrialLicenseInvalid(trialSecretName),
    }
}

test.Sequence(initStepsFn, stepsFn, esBuilder).RunSequential(t)

// TestEnterpriseTrialExtension tests that trial extensions can be successfully applied and take effect.
// Starts and verifies an ECK-managed trial. Tests that license is applied and test cluster is running in trial mode.
// Then generates a development version of an Enterprise trial extension license with a development Elasticsearch license inside.
// Then tests that ECK accepts this license and propagates the Elasticsearch license to the test Elasticsearch cluster.
// Finally tests that trial extensions can be applied repeatedly as opposed to ECK-managed trials which are one-offs.
func TestEnterpriseTrialExtension(t *testing.T) {
    if test.Ctx().TestLicensePKeyPath == "" {
        t.SkipNow()
    }
    // TestEnterpriseTrialExtension tests that trial extensions can be successfully applied and take effect.
privateKeyBytes, err := ioutil.ReadFile(test.Ctx().TestLicensePKeyPath)
require.NoError(t, err)
privateKey, err := x509.ParsePKCS8PrivateKey(privateKeyBytes)
require.NoError(t, err)

              WithESMasterDataNodes(1, elasticsearch.DefaultResources)


licenseSecretName := "eck-license"
initStepsFn := func(k *test.K8sClient) test.StepList {
    return test.StepList{
        licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
        licenseTestContext.CreateEnterpriseTrialLicenseSecret(trialSecretName),
    }
}

stepsFn := func(k *test.K8sClient) test.StepList {
    return test.StepList{
        licenseTestContext.Init(),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeTrial),
        licenseTestContext.CheckEnterpriseTrialLicenseValid(trialSecretName),
        licenseTestContext.CreateTrialExtension(licenseSecretName, privateKey.(*rsa.PrivateKey)),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypePlatinum, // depends on ES version
                                                       client.ElasticsearchLicenseTypeEnterprise),
        licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic),
        licenseTestContext.CreateTrialExtension(licenseSecretName, privateKey.(*rsa.PrivateKey)),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypePlatinum, // depends on ES version
                                                       client.ElasticsearchLicenseTypeEnterprise),
        licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic),
        licenseTestContext.CreateTrialExtension(licenseSecretName, privateKey.(*rsa.PrivateKey)),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypePlatinum, // depends on ES version
                                                       client.ElasticsearchLicenseTypeEnterprise),
        licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic),
    }
}


licenseSecretName := "eck-license"
initStepsFn := func(k *test.K8sClient) test.StepList {
    return test.StepList{
        licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
        licenseTestContext.CreateEnterpriseTrialLicenseSecret(trialSecretName),
    }
}

stepsFn := func(k *test.K8sClient) test.StepList {
    return test.StepList{
        licenseTestContext.Init(),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeTrial),
        licenseTestContext.CheckEnterpriseTrialLicenseValid(trialSecretName),
        licenseTestContext.CreateTrialExtension(licenseSecretName, privateKey.(*rsa.PrivateKey)),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypePlatinum, // depends on ES version
                                                       client.ElasticsearchLicenseTypeEnterprise),
        licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic),
        licenseTestContext.CreateTrialExtension(licenseSecretName, privateKey.(*rsa.PrivateKey)),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypePlatinum, // depends on ES version
                                                       client.ElasticsearchLicenseTypeEnterprise),
        licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic),
        licenseTestContext.CreateTrialExtension(licenseSecretName, privateKey.(*rsa.PrivateKey)),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypePlatinum, // depends on ES version
                                                       client.ElasticsearchLicenseTypeEnterprise),
        licenseTestContext.DeleteAllEnterpriseLicenseSecrets(),
        licenseTestContext.CheckElasticsearchLicense(client.ElasticsearchLicenseTypeBasic),
    }
}

test.Sequence(initStepsFn, stepsFn, esBuilder).RunSequential(t)
package license

import (  
  "context"  
  "testing"  
  "time"  
  
  "github.com/stretchr/testify/assert"  
  "github.com/stretchr/testify/require"  
  corev1 "k8s.io/api/core/v1"  
  "k8s.io/apimachinery/pkg/api/resource"  
  metav1 "k8s.io/apimachinery/pkg/apis/meta/v1"  
  "k8s.io/apimachinery/pkg/types"  
  "sigs.k8s.io/controller-runtime/pkg/client"

  apmv1 "github.com/elastic/cloud-on-k8s/pkg/apis/apm/v1"  
  esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"  
  kbv1 "github.com/elastic/cloud-on-k8s/pkg/apis/kibana/v1"  
  commonlicense "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"  
  "github.com/elastic/cloud-on-k8s/pkg/controller/kibana"  
  "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
)

const operatorNs = "test-system"

func TestGet(t *testing.T) {  
t.Run("elasticsearch_defaults", func(t *testing.T) {  
es := esv1.Elasticsearch{  
  Spec: esv1.ElasticsearchSpec{  
    NodeSets: []esv1.NodeSet{  
      Count: 10,  
    },  
  },  
  
  have, err := NewResourceReporter(k8s.NewFakeClient(&es), operatorNs).Get()  
  require.NoError(t, err)

  want := LicensingInfo{  
    TotalManagedMemory: 21.47,  
    EnterpriseResourceUnits: 1,  
    EckLicenseLevel: "basic",  
  }

  assertEqual(t, want, have)
}
t.Run("elasticsearch_with_resource_limits", func(t *testing.T) {
    es := esv1.Elasticsearch{
        Spec: esv1.ElasticsearchSpec{
            NodeSets: []esv1.NodeSet{
                Count: 100,
                PodTemplate: corev1.PodTemplateSpec{
                    Spec: corev1.PodSpec{
                        Containers: []corev1.Container{
                            {
                                Name: esv1.ElasticsearchContainerName,
                                Resources: corev1.ResourceRequirements{
                                    Limits: map[corev1.ResourceName]resource.Quantity{
                                    },
                                },
                            },
                        },
                    },
                },
            },
        },
    }
    have, err := NewResourceReporter(k8s.NewFakeClient(&es), operatorNs).Get()
    require.NoError(t, err)
    want := LicensingInfo{
        TotalManagedMemory: 644.245,
        EnterpriseResourceUnits: 11,
        EckLicenseLevel: "basic",
    }
    assertEqual(t, want, have)
})

t.Run("elasticsearch_with_heap_settings", func(t *testing.T) {
    es := esv1.Elasticsearch{
        Spec: esv1.ElasticsearchSpec{
            NodeSets: []esv1.NodeSet{
                Count: 10,
                PodTemplate: corev1.PodTemplateSpec{
                    Spec: corev1.PodSpec{
                        Containers: []corev1.Container{
                            {
                                Name: esv1.ElasticsearchContainerName,
                                Env: []corev1.EnvVar{
                                    {
                                        Name: "ES_JAVA_OPTS", Value: "-Xms8G -Xmx8G",
                                    },
                                },
                            },
                        },
                    },
                }
            },
        },
    }

have, err := NewResourceReporter(k8s.NewFakeClient(&es), operatorNs).Get()
require.NoError(t, err)

want := LicensingInfo{
    TotalManagedMemory: 171.801,
    EnterpriseResourceUnits: 3,
    EckLicenseLevel: "basic",
}

assertEqual(t, want, have)
}

t.Run("kibana_defaults", func(t *testing.T) {
    kb := kbv1.Kibana{
        Spec: kbv1.KibanaSpec{
            Count: 100,
        },
    }

    have, err := NewResourceReporter(k8s.NewFakeClient(&kb), operatorNs).Get()
    require.NoError(t, err)

    want := LicensingInfo{
        TotalManagedMemory: 107.374,
        EnterpriseResourceUnits: 2,
        EckLicenseLevel: "basic",
    }

    assertEqual(t, want, have)
})

t.Run("kibana_with_resource_limits", func(t *testing.T) {
    kb := kbv1.Kibana{
        Spec: kbv1.KibanaSpec{
            Count: 100,
            PodTemplate: corev1.PodTemplateSpec{
                Spec: corev1.PodSpec{
                    Containers: []corev1.Container{
                        
                        
                        
                        
                    }}}}},
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        }
have, err := NewResourceReporter(k8s.NewFakeClient(&kb), operatorNs).Get()
require.NoError(t, err)
want := LicensingInfo{
    TotalManagedMemory: 214.754,
    EnterpriseResourceUnits: 4,
    ECKLicenseLevel: "basic",
}
assertEqual(t, want, have)
})

t.Run("kibana_with_node_opts", func(t *testing.T) {
    kb := kbv1.Kibana{
        Spec: kbv1.KibanaSpec{
            Count: 100,
            PodTemplate: kbv1.PodTemplateSpec{
                Spec: kbv1.PodSpec{
                    Containers: []corev1.Container{
                        {
                            Name: kbv1.KibanaContainerName,
                            Env: []corev1.EnvVar{
                                {
                                    Name: kibana.EnvNodeOptions, Value: "--max-old-space-size=2048",
                                },
                            },
                        },
                    },
                },
            },
        },
    }
    have, err := NewResourceReporter(k8s.NewFakeClient(&kb), operatorNs).Get()
    require.NoError(t, err)
    want := LicensingInfo{
        TotalManagedMemory: 204.804,
        EnterpriseResourceUnits: 4,
        ECKLicenseLevel: "basic",
    }
    assertEqual(t, want, have)
})
func assertEqual(t *testing.T, want, have LicensingInfo) {
    t.Helper()

    wantMap := want.toMap()
    delete(wantMap, "timestamp")

    haveMap := have.toMap()
    delete(haveMap, "timestamp")

    require.Equal(t, wantMap, haveMap)
}

func Test_Start(t *testing.T) {
    es := esv1.Elasticsearch{
        ObjectMeta: metav1.ObjectMeta{
            Name: "es-test",
        },
        Spec: esv1.ElasticsearchSpec{
            NodeSets: []esv1.NodeSet{
                {Count: 40},
            },
        },
    }
    kb := kbv1.Kibana{
        Spec: kbv1.KibanaSpec{
            Count: 2,
        },
    }
    apm := apmv1.ApmServer{
        Spec: apmv1.ApmServerSpec{
            Count: 2,
        },
    }

    k8sClient := k8s.NewFakeClient(&es, &kb, &apm)
    refreshPeriod := 1 * time.Second
    waitFor := 10 * refreshPeriod
    tick := refreshPeriod / 2

    // start the resource reporter
    go NewResourceReporter(k8sClient, operatorNs).Start(refreshPeriod)

    // check that the licensing config map exists
    assert.Eventually(t, func() bool {
        var cm corev1.ConfigMap
        err := k8sClient.Get(context.Background(), types.NamespacedName{
            Namespace: operatorNs,
            Name: LicensingCfgMapName,
        }, &cm)
        if err != nil {
            return false
        }
        return cm.Data["timestamp"] != "" &&
            cm.Data["cek_license_level"] == defaultOperatorLicenseLevel &&
            cm.Data["enterprise_resource_units"] == "2" &&
            cm.Data["total_managed_memory"] == "89.12GB"
    }, waitFor, tick)
}
// increase the Elasticsearch nodes count
es.Spec.NodeSets[0].Count = 80
err := k8sClient.Update(context.Background(), &es)
assert.NoError(t, err)

// check that the licensing config map has been updated
assert.Eventually(t, func() bool {
    var cm corev1.ConfigMap
    err := k8sClient.Get(context.Background(), types.NamespacedName{
        Namespace: operatorNs,
        Name: LicensingCfgMapName,
    }, &cm)
    if err != nil {
        return false
    }
    return cm.Data["timestamp"] != "" &&
    cm.Data["eck_license_level"] == defaultOperatorLicenseLevel &&
    cm.Data["enterprise_resource_units"] == "3" &&
    cm.Data["total_managed_memory"] == "175.02GB"
}, waitFor, tick)

startTrial(t, k8sClient)
// check that the license level has been updated
assert.Eventually(t, func() bool {
    var cm corev1.ConfigMap
    err := k8sClient.Get(context.Background(), types.NamespacedName{
        Namespace: operatorNs,
        Name: LicensingCfgMapName,
    }, &cm)
    if err != nil {
        return false
    }
    return cm.Data["timestamp"] != "" &&
    cm.Data["eck_license_level"] == string(commonlicense.LicenseTypeEnterpriseTrial) &&
    cm.Data["enterprise_resource_units"] == "3" &&
    cm.Data["total_managed_memory"] == "175.02GB"
}, waitFor, tick)

func startTrial(t *testing.T, k8sClient client.Client) {
    t.Helper()
    // start a trial
    trialState, err := commonlicense.NewTrialState()
    require.NoError(t, err)
    wrappedClient := k8sClient
    licenseNSN := types.NamespacedName{
        Namespace: operatorNs,
        Name: LicensingCfgMapName,
    }}
Namespace: operatorNs,
Name: "eck-trial",

// simulate user kicking off the trial activation
require.NoError(t, commonlicense.CreateTrialLicense(wrappedClient, licenseNSN))
// fetch user created license
licenseSecret, license, err := commonlicense.TrialLicense(wrappedClient, licenseNSN)
require.NoError(t, err)
// fill in and sign
require.NoError(t, trialState.InitTrialLicense(&license))
status, err := commonlicense.ExpectedTrialStatus(operatorNs, licenseNSN, trialState)
require.NoError(t, err)
// persist status
require.NoError(t, wrappedClient.Create(context.Background(), &status))
// persist updated license
require.NoError(t, commonlicense.UpdateEnterpriseLicense(wrappedClient, licenseSecret, license))

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package license

import (
    "crypto/x509"
    "reflect"
    "testing"
    "time"
    "github.com/stretchr/testify/assert"
    "github.com/stretchr/testify/require"
    v1 "k8s.io/api/core/v1"
    metav1 "k8s.io/apimachinery/pkg/apis/meta/v1"
    "k8s.io/apimachinery/pkg/types"
)

func TestInitTrialLicense(t *testing.T) {
    licenseFixture := EnterpriseLicense{
        License: LicenseSpec{
            Type: LicenseTypeEnterpriseTrial,
        },
    }
    type args struct {
        l *EnterpriseLicense
    }
    tests := []struct {
        name    string
        state   TrialState
        args    args
        want    func(*EnterpriseLicense)
        wantErr bool
    }{
        {name: "nil license",
            args: args{
                l: nil,
            },
            want: func(l *EnterpriseLicense) {}
        }
    }
}
name: "not a trial license",
args: args{
  l: &EnterpriseLicense{ },
},
want: func(l *EnterpriseLicense) {
  require.Equal(t, *l, EnterpriseLicense{ })
},
wantErr: true,
},

{name: "successful trial start",
state: func() TrialState {
  state, err := NewTrialState()
  require.NoError(t, err)
  return state
}(),
args: args{
  l: &licenseFixture,
},
want: func(l *EnterpriseLicense) {
  require.NoError(t, l.IsMissingFields())
},
wantErr: false,
},

{name: "not in activation state",
args: args{
  l: &licenseFixture,
},
wantErr: true,
}
}
for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    err := tt.state.InitTrialLicense(tt.args.l)
    if (err != nil) != tt.wantErr {
      t.Errorf("InitTrial() error = %v, wantErr %v", err, tt.wantErr)
      return
    }
    if tt.want != nil {
      tt.want(tt.args.l)
    }
  })
}

func TestPopulateTrialLicense(t *testing.T) {
  type args struct {

tests := []struct {
    name     string
    args     args
    assertions func(EnterpriseLicense)
    wantErr  bool
}

name: "non-trial FAIL",
args: args{
    l: &EnterpriseLicense{
        License: LicenseSpec{
            Type: LicenseTypeEnterprise,
        },
    },
    wantErr: true,
}
name: "trial license OK",
args: args{
    l: &EnterpriseLicense{
        License: LicenseSpec{
            Type: LicenseTypeEnterpriseTrial,
        },
    },
    assertions: func(l EnterpriseLicense) {
        require.NoError(t, l.IsMissingFields())
    },
    wantErr: false,
}

// technically this code path should not be possible: we use the new type when creating a new trial
// and we don't repopulate existing licenses
name: "legacy trial still supported",
args: args{
    l: &EnterpriseLicense{
        License: LicenseSpec{
            Type: LicenseTypeLegacyTrial,
        },
    },
    assertions: func(l EnterpriseLicense) {
        require.NoError(t, l.IsMissingFields())
    },
    wantErr: false,
for _, tt := range tests {
t.Run(tt.name, func(t *testing.T) {
    if err := populateTrialLicense(tt.args.l); (err != nil) != tt.wantErr {
        t.Errorf("PopulateTrialLicense() error = %v, wantErr %v", err, tt.wantErr)
    }
    if tt.assertions != nil {
        tt.assertions(*tt.args.l)
    }
})
}

func TestStartTrial(t *testing.T) {
dateFixture := time.Date(2019, 01, 22, 0, 0, 0, 0, time.UTC)
type args struct {
    start time.Time
    l     *EnterpriseLicense
}
tests := []struct {
    name       string
    args       args
    assertions func(EnterpriseLicense)
}{{
    name: "trial is 30 days",
    start: dateFixture,
    l:     &EnterpriseLicense{},
},
    assertions: func(license EnterpriseLicense) {
        assert.Equal(t, license.ExpiryTime().UTC(), time.Date(2019, 02, 21, 0, 0, 0, 0, time.UTC))
        assert.Equal(t, license.StartTime().UTC(), dateFixture)
    },
},
}

for _, tt := range tests {
t.Run(tt.name, func(t *testing.T) {
    setStartAndExpiry(tt.args.l, tt.args.start)
})
    if tt.assertions != nil {
        tt.assertions(*tt.args.l)
    }
}

func TestNewTrialStateFromStatus(t *testing.T) {
key, err := newTrialKey()
require.NoError(t, err)

keySerialized, err := x509.MarshalPKIXPublicKey(&key.PublicKey)
require.NoError(t, err)

type args struct {
    trialStatus v1.Secret
}

tests := []struct {
    name    string
    args    args
    want    func(TrialState)
    wantErr bool
}{
    {
        name: "reconstructs state",
        args: args{
            trialStatus: v1.Secret{
                Data: map[string][]byte{
                    TrialPubkeyKey: keySerialized,
                },
            },
        },
        want: func(s TrialState) {
            require.True(t, s.IsTrialStarted())
            require.True(t, reflect.DeepEqual(s, TrialState{
                publicKey: &key.PublicKey,
            }))
        },
        wantErr: false,
    },
    {
        name: "error on garbage status",
        args: args{
            trialStatus: v1.Secret{
                Data: map[string][]byte{
                    TrialPubkeyKey: []byte("foo"),
                },
            },
        },
        wantErr: true,
        want: func(state TrialState) {
            require.False(t, state.IsTrialStarted())
        },
    },
}

for _, tt := range tests {
t.Run(tt.name, func(t *testing.T) {
    got, err := NewTrialStateFromStatus(tt.args.trialStatus)
    if (err != nil) != tt.wantErr {
        t.Errorf("NewTrialStateFromStatus() error = %v, wantErr %v", err, tt.wantErr)
        return
    }
    if tt.want != nil {
        tt.want(got)
    }
})
}
}

func TestExpectedTrialStatus(t *testing.T) {
    sampleKey, err := newTrialKey()
    require.NoError(t, err)
    pubKey, err := x509.MarshalPKIXPublicKey(&sampleKey.PublicKey)
    require.NoError(t, err)

define tests struct {
    name string
    args args
    want v1.Secret
    wantErr bool
}{
    "status during activation",
    args{
        state: TrialState{
            publicKey: &sampleKey.PublicKey,
            privateKey: sampleKey,
        },
    },
    want: v1.Secret{
        ObjectMeta: metav1.ObjectMeta{
            Namespace: "ns",
            Name: TrialStatusSecretKey,
            Annotations: map[string]string{
                TrialLicenseSecretName: "name",
                TrialLicenseSecretNamespace: "ns",
            },
        },
        Data: map[string][]byte{
            TrialPubkeyKey: pubKey,
            TrialActivationKey: []byte("true"),
        },
    }
}

```
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        got, err := ExpectedTrialStatus("ns", types.NamespacedName{
            Namespace: "ns",
            Name:      "name",
        }, tt.args.state)
        if (err != nil) != tt.wantErr {
            t.Errorf("ExpectedTrialStatus() error = %v, wantErr %v", err, tt.wantErr)
            return
        }
        if !reflect.DeepEqual(got, tt.want) {
            t.Errorf("ExpectedTrialStatus() got = %v, want %v", got, tt.want)
        }
    })
}
No licence information provided.
Website: https://github.com/dgryski/go-gk
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{{- define "depInfo" -}}
{{- range $i, $dep := . }}
{{ "-" | line }}
Module : {{ $dep.Name }}
Version : {{ $dep.Version }}
Time    : {{ $dep.VersionTime }}
Licence : {{ $dep.LicenceType }}

{{ $dep | licenceText }}
{{ end }}
{{- end -}}

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{{ "=" | line }}
Third party libraries used by the Elastic Cloud on Kubernetes project
{{ "=" | line }}

{{ template "depInfo" .Direct }}

{{ if .Indirect }}
{{ "=" | line }}
Indirect dependencies

{{ template "depInfo" .Indirect }}
package license

import {
  "crypto/rsa"
  "crypto/x509"
  "encoding/json"
  "fmt"
  "io/ioutil"
  "testing"
  "github.com/elastic/cloud-on-k8s/pkg/controller/common"
  "github.com/stretchr/testify/require"
  corev1 "k8s.io/api/core/v1"
  metav1 "k8s.io/api/machinery/pkg/apis/meta/v1"
  "k8s.io/api/machinery/pkg/runtime"
}

var (  
  licenseFixtureV3 = EnterpriseLicense{  
    License: LicenseSpec{  
      UID: "1A3E10B3-78AD-459B-86B9-230A53B3F282",
      IssueDateInMillis: 1548115200000,
      ExpiryDateInMillis: 1561247999999,
      IssuedTo: "Ben Bitdiddle",
      Issuer: "Alyssa P. Hacker,",
      StartDateInMillis: 1548115200000,
      Type: "enterprise",
      MaxInstances : 23,
      Signature: string(signatureFixtureV3),
      Version: 3, // purely documentation neither verified nor signed
    },
  },
  licenseFixtureV4 = EnterpriseLicense{  
    License: LicenseSpec{  
      UID: "1A3E10B3-78AD-459B-86B9-230A53B3F282",
      IssueDateInMillis: 1548115200000,
      ExpiryDateInMillis: 1561247999999,
      IssuedTo: "Ben Bitdiddle",
      Issuer: "Alyssa P. Hacker,",
      StartDateInMillis: 1548115200000,
      Type: "enterprise",
      MaxResourceUnits: 46,
      Signature: string(signatureFixtureV4),
    }
  )
var emptyTrialLicenseFixture = EnterpriseLicense{
License: LicenseSpec{
Type: LicenseTypeEnterpriseTrial,
},
}

func externallySignedLicenseFixture() (EnterpriseLicense, error) {
exptectedBytes, err := ioutil.ReadFile("testdata/externally-generated-lic.json")
if err != nil {
return EnterpriseLicense{}, err
}

var lic EnterpriseLicense
err = json.Unmarshal(exptectedBytes, &lic)
if err != nil {
return EnterpriseLicense{}, err
}
return lic, nil
}

func withSignature(l EnterpriseLicense, sig []byte) EnterpriseLicense {
l.License.Signature = string(sig)
return l
}

func asRuntimeObject(l EnterpriseLicense) runtime.Object {
bytes, err := json.Marshal(l)
if err != nil {
panic(err)
}
return &corev1.Secret{
ObjectMeta: metav1.ObjectMeta{
Namespace: "test-system",
Name: fmt.Sprintf("test-%s-license", string(l.License.Type)),
Labels: map[string]string{
common.TypeLabelName: Type,
LicenseLabelScope: string(LicenseScopeOperator),
LicenseLabelType: string(l.License.Type),
},
Data: map[string][]byte{
FileName: bytes,
}
func asRuntimeObjects(l EnterpriseLicense, sig []byte) []runtime.Object {
    return []runtime.Object{
        asRuntimeObject(withSignature(l, sig)),
    }
}

func publicKeyBytesFixture(t *testing.T) []byte {
    t.Helper()
    bytes, err := x509.MarshalPKIXPublicKey(publicKeyFixture(t))
    require.NoError(t, err)
    return bytes
}

func publicKeyFixture(t *testing.T) *rsa.PublicKey {
    t.Helper()
    key, err := x509.ParsePKCS1PrivateKey(privateKeyFixture)
    require.NoError(t, err)
    return &key.PublicKey
}

var privateKeyFixture = []byte{
    0x30, 0x82, 0x04, 0xa5, 0x02, 0x00, 0x02, 0x82, 0x01, 0x01, 0x00, 0xe3, 0x4d, 0xbc, 0x9b,
    0x76, 0x1e, 0x1a, 0xa4, 0x89, 0x28, 0x6e, 0xf0, 0x7e, 0x10, 0xf2, 0x87, 0x52, 0xbc, 0x64, 0xd2,
    0x94, 0x46, 0x78, 0xf1, 0x5b, 0xd0, 0xda, 0xd3, 0xdc, 0x56, 0x6e, 0x62, 0x6f, 0xa1, 0x9e, 0x12,
    0x65, 0x35, 0xcf, 0x92, 0x2e, 0xd4, 0xf2, 0xd9, 0xf9, 0x99, 0x00, 0xa1, 0x11, 0xfd, 0x34,
    0x0b, 0x43, 0xb5, 0xc5, 0x85, 0xff, 0x2d, 0x35, 0xd7, 0x8e, 0x6e, 0x17, 0xf4, 0x64, 0x5d,
    0x93, 0x8b, 0x9a, 0x44, 0x17, 0x81, 0x48, 0xe9, 0x38, 0xd8, 0x59, 0x63, 0xd9, 0x6b, 0xaf,
    0xad, 0x7f, 0xb2, 0x71, 0x4b, 0xd4, 0xe7, 0x7b, 0x44, 0x9d, 0x0a, 0x19, 0x1e, 0x4a,
    0x10, 0x0b, 0x2b, 0x8d, 0x69, 0x98, 0xa4, 0x40, 0xe2, 0xa9, 0x2e, 0x78, 0xe4, 0x88, 0xe2, 0x85,
    0x22, 0xf8, 0x78, 0xcc, 0x37, 0x6f, 0x8e, 0x14, 0x9e, 0xd8, 0x8a, 0x61, 0xe1, 0x9a, 0xac, 0x2d,
    0x83, 0x9a, 0x65, 0x96, 0x9c, 0xa5, 0xd9, 0x73,
var signatureFixtureV3 = []byte{
  0x41, 0x41, 0x41, 0x41, 0x77, 0x41, 0x41, 0x41,
  0x41, 0x30, 0x31, 0x38, 0x47, 0x4c, 0x41, 0x41,
  0x51, 0x4c, 0x4f, 0x70, 0x53, 0x31, 0x56, 0x62,
  0x6d, 0x70, 0x34, 0x56, 0x7a, 0x6c, 0x59, 0x41,
  0x41, 0x41, 0x42, 0x61, 0x45, 0x31, 0x4a, 0x53,
  0x55, 0x4a, 0x44, 0x5a, 0x30, 0x74, 0x4f, 0x53,
  0x62, 0x6d, 0x70, 0x34, 0x56, 0x7a, 0x6c, 0x45,
  0x59, 0x54, 0x51, 0x45, 0x52, 0x44, 0x44, 0x41,
  0x41, 0x41, 0x42, 0x61, 0x45, 0x31, 0x4a, 0x53,
  0x55, 0x4a, 0x44, 0x5a, 0x30, 0x74, 0x4f, 0x53,
  0x62, 0x6d, 0x70, 0x34, 0x56, 0x7a, 0x6c, 0x45,
  0x59, 0x54, 0x41, 0x35, 0x65, 0x46, 0x64, 0x69,
  0x62, 0x55, 0x70, 0x32, 0x62, 0x31, 0x6f, 0x30,
}
var signatureFixtureV4 = [byte{
0x41, 0x41, 0x41, 0x41, 0x41, 0x77, 0x41, 0x41, 0x41, 0x41, 0x41, 0x33, 0x67, 0x61, 0x61, 0x32, 0x67, 0x76, 0x46, 0x46, 0x71, 0x67, 0x32, 0x50, 0x37, 0x45, 0x72, 0x74, 0x72, 0x41, 0x41, 0x41, 0x42, 0x61, 0x45, 0x31, 0x44, 0x53, 0x55, 0x4a, 0x44, 0x5a, 0x30, 0x74, 0x44, 0x51, 0x56, 0x46, 0x46, 0x51, 0x54, 0x51, 0x77, 0x4d, 0x6a, 0x68, 0x74, 0x4d, 0x31, 0x6c, 0x6c, 0x52, 0x33, 0x46, 0x54, 0x53, 0x6b, 0x74, 0x48, 0x4e, 0x46, 0x42, 0x6d, 0x61, 0x45, 0x52, 0x35, 0x61, 0x44, 0x46, 0x4c, 0x4f, 0x46, 0x70, 0x4f, 0x53, 0x31, 0x56, 0x53, 0x62, 0x6d, 0x70, 0x34, 0x56, 0x7a, 0x6c, 0x45, 0x59, 0x54, 0x41, 0x35, 0x65, 0x46, 0x64, 0x69, 0x62, 0x55, 0x70, 0x32, 0x62, 0x31, 0x6f, 0x30, 0x55, 0x31, 0x70, 0x55, 0x57, 0x46, 0x42, 0x72, 0x61, 0x54, 0x64, 0x6b, 0x4f, 0x43, 0x39, 0x4d, 0x57, 0x69, 0x74, 0x61, 0x61, 0x30, 0x46, 0x76, 0x55, 0x6b, 0x67, 0x35, 0x54, 0x6b, 0x46, 0x30, 0x52, 0x48, 0x52, 0x69, 0x57, 0x45, 0x39, 0x59, 0x4c, 0x31, 0x52, 0x50, 0x56, 0x57, 0x5a, 0x72, 0x4d, 0x55, 0x67, 0x72, 0x4d, 0x6c, 0x55, 0x78, 0x51, 0x33, 0x6c, 0x54, 0x62, 0x46, 0x68, 0x57, 0x55, 0x57, 0x6c, 0x44, 0x4b, 0x30, 0x70, 0x52, 0x57, 0x47, 0x74, 0x59, 0x4d, 0x55, 0x70, 0x72, 0x4e, 0x46, 0x64, 0x71, 0x4e, 0x6e, 0x4a, 0x76, 0x62, 0x31, 0x46, 0x7a, 0x53, 0x33, 0x68, 0x50, 0x56, 0x57, 0x68, 0x6d, 0x4f, 0x48, 0x52, 0x4f, 0x5a, 0x47, 0x56, 0x50, 0x59, 0x6d, 0x68, 0x6d, 0x4d, 0x46, 0x70, 0x47, 0x4d, 0x6c, 0x52, 0x70, 0x4e, 0x58, 0x52, 0x46, 0x52, 0x4a, 0x52, 0x47, 0x53, 0x54, 0x5a, 0x61, 0x6c, 0x56, 0x58, 0x56, 0x31, 0x42, 0x61, 0x59, 0x54, 0x59, 0x72, 0x64, 0x47, 0x59, 0x33, 0x53, 0x6e, 0x68, 0x54, 0x4f, 0x56, 0x52, 0x71, 0x59, 0x58, 0x56, 0x6b, 0x4e, 0x31, 0x4a, 0x4b, 0x4d, 0x45, 0x74, 0x48, 0x55, 0x6a, 0x5a, 0x72, 0x52, 0x55, 0x46, 0x7a, 0x63, 0x6d, 0x70, 0x58, 0x62, 0x56, 0x6c, 0x77, 0x52, 0x55, 0x52, 0x70, 0x63, 0x56, 0x4d, 0x31, 0x4e, 0x46, 0x52, 0x76, 0x61, 0x6d, 0x6c, 0x6f, 0x55, 0x30, 0x77, 0x30, 0x5a, 0x55, 0x31, 0x33, 0x4d, 0x32, 0x49, 0x30, 0x4e, 0x46, 0x55, 0x33, 0x64, 0x47, 0x6c, 0x4c, 0x57, 0x56, 0x48, 0x59, 0x58, 0x4a, 0x44, 0x4d, 0x6b, 0x52, 0x74, 0x62, 0x56, 0x64, 0x58, 0x62, 0x6b, 0x74, 0x59, 0x57, 0x6d, 0x4d, 0x7a, 0x51, 0x57, 0x31, 0x77, 0x4e, 0x46, 0x70, 0x58, 0x54, 0x48, 0x52, 0x68, 0x61, 0x53, 0x39, 0x35, 0x5a, 0x7a, 0x52, 0x4e,
package license

import (
    "bufio"
    "errors"
    "io"
    "os"
    "testing"

    apmv1 "github.com/elastic/cloud-on-k8s/pkg/apis/apm/v1"
    esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1"
    entv1 "github.com/elastic/cloud-on-k8s/pkg/apis/enterprisesearch/v1"
    kbv1 "github.com/elastic/cloud-on-k8s/pkg/apis/kibana/v1"
    "github.com/elastic/cloud-on-k8s/pkg/utils/k8s"
    "github.com/stretchr/testify/assert"
    "github.com/stretchr/testify/require"
    "k8s.io/apimachinery/pkg/api/resource"
    "k8s.io/apimachinery/pkg/runtime"
    "k8s.io/apimachinery/pkg/runtime/serializer"
    "k8s.io/api/apimachinery/pkg/api/resource"
    "k8s.io/api/apimachinery/pkg/runtime"
    "k8s.io/api/apimachinery/pkg/runtime/serializer"
    "k8s.io/api/apimachinery/pkg/util/yaml"
)

func TestMemFromJavaOpts(t *testing.T) {
    tests := []struct {
        name     string
        actual   string
        expected resource.Quantity
        isErr    bool
    }{
    }
name: "in k",
actual: "-Xms1k -Xmx8388608k",
expected: resource.MustParse("16777216Ki"),
},

{ name: "in K",
actual: "-Xmx1024K",
expected: resource.MustParse("2048Ki"),
},

{ name: "in m",
actual: "-Xmx512m -Xms256m",
expected: resource.MustParse("1024Mi"),
},

{ name: "in M",
actual: "-Xmx256M",
expected: resource.MustParse("512Mi"),
},

{ name: "in g",
actual: "-Xmx64g",
expected: resource.MustParse("128Gi"),
},

{ name: "in G",
actual: "-Xmx64G",
expected: resource.MustParse("128Gi"),
},

{ name: "without unit",
actual: "-Xmx1048576",
expected: resource.MustParse("2Mi"),
},

{ name: "without value",
actual: "-XmxM",
isErr: true,
},

{ name: "with an invalid Xmx",
actual: "-XMX1k",
isErr: true,
},

{ name: "with an invalid unit",
actual: "-Xmx64GB",
isErr: true,
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        got, err := memFromJavaOpts(tt.actual)
        if tt.isErr {
            assert.Error(t, err)
        } else {
            assert.NoError(t, err)
            if !got.Equal(tt.expected) {
                t.Errorf("memFromJavaOpts(%s) = %v, want %s", tt.actual, got.String(), tt.expected.String())
            }
        }
    })
}
}

func TestMemFromNodeOpts(t *testing.T) {
    tests := []struct {
        name     string
        actual   string
        expected string
        isErr    bool
    }
    {
        name:  "with max-old-space-size option",
        actual: "--max-old-space-size=2048",
        expected: "2048M",
    }
    {
        name:  "empty options",
        actual: "",
    }
}

for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        q, err := memFromNodeOptions(tt.actual)
        if tt.isErr {
            assert.Error(t, err)
        } else {
            assert.NoError(t, err)
        }
        got := resource.MustParse(tt.expected)
        if !got.Equal(q) {
            t.Errorf("memFromNodeOptions(%s) = %v, want %s", tt.actual, got, tt.expected)
        }
    })
}

func TestAggregator(t *testing.T) {
    objects := readObjects(t, "testdata/stack.yaml")
    client := k8s.NewFakeClient(objects...)
    aggregator := Aggregator{client: client}

    val, err := aggregator.AggregateMemory()
    require.NoError(t, err)
    require.Equal(t, 349.940350976, inGB(val))
}

func readObjects(t *testing.T, filePath string) []runtime.Object {
    t.Helper()
    scheme := runtime.NewScheme()

    f, err := os.Open(filePath)
    require.NoError(t, err)
    defer f.Close()

    yamlReader := yaml.NewYAMLReader(bufio.NewReader(f))

    var objects []runtime.Object

for {
    yamlBytes, err := yamlReader.Read()
    if err != nil {
        if errors.Is(err, io.EOF) {
            break
        }
    }
    require.NoError(t, err)
    obj, _, err := decoder.Decode(yamlBytes, nil, nil)
    require.NoError(t, err)
    objects = append(objects, obj)
}

return objects
}

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package license

import (  
  "bytes"  
  "crypto"  
  "crypto/rand"  
  "crypto/rsa"  
  "crypto/sha512"  
  "crypto/x509"  
  "encoding/base64"  
  "encoding/binary"  
  "encoding/json"  
  "errors"  
  "io"  
  "time"
  
errors2 "github.com/pkg/errors"
)

// Verifier verifies Enterprise licenses.
type Verifier struct {  
  PublicKey *rsa.PublicKey
  }

// Valid checks the validity of the given Enterprise license.
func (v *Verifier) Valid(l EnterpriseLicense, now time.Time) LicenseStatus {  
  if !l.IsValid(now) {  
    return LicenseStatusExpired
  }
  if err := v.ValidSignature(l); err != nil {  
    log.Error(err, "Failed signature check")
    return LicenseStatusInvalid
  }
  return LicenseStatusValid
}

// ValidSignature checks signature of the given Enterprise license. Returns nil if valid.
func (v *Verifier) ValidSignature(l EnterpriseLicense) error {  
  allParts := make([]byte, base64.StdEncoding.DecodedLen(len(l.License.Signature)))  
  _, err := base64.StdEncoding.Decode(allParts, []byte(l.License.Signature))  
  if err != nil {  
    return errors2.Wrap(err, "failed to base64 decode signature")
  }
  buf := bytes.NewBuffer(allParts)
maxLen := uint32(len(allParts))

var version uint32
if err := readInt(buf, &version); err != nil {
    return errors2.Wrap(err, "failed to read version")
}

var magicLen uint32
if err := readInt(buf, &magicLen); err != nil {
    return errors2.Wrap(err, "failed to read magic length")
}
if magicLen > maxLen {
    return errors.New("magic exceeds max length")
}
magic := make([]byte, magicLen)
_, err = buf.Read(magic)
if err != nil {
    return errors2.Wrap(err, "failed to read magic")
}

var hashLen uint32
if err := readInt(buf, &hashLen); err != nil {
    return errors2.Wrap(err, "failed to read hash length")
}
if hashLen > maxLen {
    return errors.New("hash exceeds max len")
}
pubKeyFingerprint := make([]byte, hashLen)
_, err = buf.Read(pubKeyFingerprint)
if err != nil {
    return err
}

var signedContentLen uint32
if err := readInt(buf, &signedContentLen); err != nil {
    return errors2.Wrap(err, "failed to read signed content length")
}
if signedContentLen > maxLen {
    return errors.New("signed content exceeds max length")
}
signedContentSig := make([]byte, signedContentLen)
_, err = buf.Read(signedContentSig)
if err != nil {
    return err
}
contentBytes, err := l.SignableContentBytes()
if err != nil {
    return err
}
// TODO optional pubkey fingerprint check
hashed := sha512.Sum512(contentBytes)
return rsa.VerifyPKCS1v15(v.PublicKey, crypto.SHA512, hashed[:], signedContentSig)
}

// NewVerifier creates a new license verifier from a DER encoded public key.
func NewVerifier(pubKeyBytes []byte) (*Verifier, error) {
    key, err := ParsePubKey(pubKeyBytes)
    return &Verifier{
        PublicKey: key,
    }, err
}

func ParsePubKey(pubKeyBytes []byte) (*rsa.PublicKey, error) {
    pub, err := x509.ParsePKIXPublicKey(pubKeyBytes)
    if err != nil {
        return nil, err
    }
    pubKey, ok := pub.(*rsa.PublicKey)
    if !ok {
        return nil, errors.New("public key is not an RSA key")
    }
    return pubKey, nil
}

// Signable represents data that can be signed by a Signer.
type Signable interface {
    // SignableContentBytes returns the data to be signed.
    SignableContentBytes() ([]byte, error)
    // Version indicates the version of the license spec used when generating SignableContentBytes.
    Version() int
}

// Signer signs Enterprise licenses.
type Signer struct {
    Verifier
    privateKey *rsa.PrivateKey
}

// NewSigner creates a new license signer from a private key.
func NewSigner(privKey *rsa.PrivateKey) *Signer {
    return &Signer{
        Verifier: Verifier{
            PublicKey: &privKey.PublicKey,
        },
        privateKey: privKey,
    }
}
// Sign signs the given Signable. Returns the signature or an error.
func (s *Signer) Sign(spec Signable) ([]byte, error) {
toSign, err := spec.SignableContentBytes()
if err != nil {
    return nil, err
}
rng := rand.Reader
hashed := sha512.Sum512(toSign)

rsaSig, err := rsa.SignPKCS1v15(rng, s.privateKey, crypto.SHA512, hashed[:])
if err != nil {
    return nil, err
}
const magicLen = 13
magic := make([]byte, magicLen)
_, err = rand.Read(magic)
if err != nil {
    return nil, err
}
publicKeyBytes, err := x509.MarshalPKIXPublicKey(s.PublicKey)
if err != nil {
    return nil, errors2.Wrap(err, "while marshalling public key")
}
encPubKeyBytes, err := encryptWithAESECB(publicKeyBytes)
if err != nil {
    return nil, errors2.Wrap(err, "while encrypting public key")
}

hash := make([]byte, base64.StdEncoding.EncodedLen(len(encPubKeyBytes)))
base64.StdEncoding.Encode(hash, encPubKeyBytes)

// version (uint32) + magic length (uint32) + magic + hash length (uint32) + hash + sig length (uint32) + sig
sig := make([]byte, 0, 4+4+magicLen+4+len(hash)+4+len(rsaSig))

buf := bytes.NewBuffer(sig)

if err := writeInt(buf, spec.Version()); err != nil {
    return nil, err
}
if err := writeInt(buf, len(magic)); err != nil {
    return nil, err
}
_, err = buf.Write(magic)
if err != nil {
    return nil, err
}
if err := writeInt(buf, len(hash)); err != nil {
    return nil, err
}
```
return nil, err
}
_, err = buf.Write(hash)
if err != nil {
    return nil, err
}
if err := writeInt(buf, len(rsaSig)); err != nil {
    return nil, err
}
_, err = buf.Write(rsaSig)
if err != nil {
    return nil, err
}
sigBytes := buf.Bytes()
out := make([]byte, base64.StdEncoding.EncodedLen(len(sigBytes)))
base64.StdEncoding.Encode(out, sigBytes)
return out, nil
}

type licenseSpec struct {
    UID                string `json:"uid"
    LicenseType        string `json:"type"
    IssueDate          string `json:"issue_date,omitempty"
    StartDate          string `json:"start_date,omitempty"
    ExpiryDate         string `json:"expiry_date,omitempty"
    IssueDateInMillis  int64  `json:"issue_date_in_millis,omitempty"
    StartDateInMillis  int64  `json:"start_date_in_millis,omitempty"
    ExpiryDateInMillis int64  `json:"expiry_date_in_millis,omitempty"
    MaxInstances       int    `json:"max_instances,omitempty"
    MaxResourceUnits   int    `json:"max_resource_units,omitempty"
    IssuedTo           string `json:"issued_to"
    Issuer             string `json:"issuer"
}

func (l EnterpriseLicense) SignableContentBytes() ([]byte, error) {
    return unescapedJSONMarshal(licenseSpec{
        UID:                l.License.UID,
        LicenseType:        string(l.License.Type),
        IssueDateInMillis:  l.License.IssueDateInMillis,
        StartDateInMillis:  l.License.StartDateInMillis,
        ExpiryDateInMillis: l.License.ExpiryDateInMillis,
        MaxInstances:       l.License.MaxInstances,
        MaxResourceUnits:   l.License.MaxResourceUnits,
        IssuedTo:           l.License.IssuedTo,
        Issuer:             l.License.Issuer,
    })
}
```
// unescapedJSONMarshal is a custom JSON encoder that turns off Go json's default behaviour of escaping > < and &
// which is problematic and would lead to failed signature checks as our license signing does not escape those characters.
func unescapedJSONMarshal(t interface{}) ([]byte, error) {
    buffer := &bytes.Buffer{}
    encoder := json.NewEncoder(buffer)
    encoder.SetEscapeHTML(false)
    err := encoder.Encode(t)
    if err != nil {
        return nil, err
    }
    marshaledBytes := buffer.Bytes()
    // json.Encoder adds an additional newline between objects which we do not want here
    // as it is not part of the signature. That's we we are trimming it here.
    return bytes.TrimRight(marshaledBytes, "\n"), err
}

func (l EnterpriseLicense) Version() int {
    return l.License.Version
}

func writeInt(buffer *bytes.Buffer, i int) error {
    in := make([]byte, 4)
    binary.BigEndian.PutUint32(in, uint32(i))
    _, err := buffer.Write(in)
    return err
}

func readInt(r io.Reader, i *uint32) error {
    out := make([]byte, 4)
    _, err := io.ReadFull(r, out)
    if err != nil {
        return err
    }
    *i = binary.BigEndian.Uint32(out)
    return nil
}

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package license

import {
    "context"
    "fmt"
    "regexp"
// Aggregator aggregates the total of resources of all Elastic managed components

type Aggregator struct {
    client k8s.Client
}

type aggregate func() (resource.Quantity, error)

// AggregateMemory aggregates the total memory of all Elastic managed components

func (a Aggregator) AggregateMemory() (resource.Quantity, error) {
    var totalMemory resource.Quantity
    for _, f := range []aggregate{
        a.aggregateElasticsearchMemory,
        a.aggregateKibanaMemory,
        a.aggregateApmServerMemory,
        a.aggregateEnterpriseSearchMemory,
    } {
        memory, err := f()
        if err != nil {
            return resource.Quantity{}, err
        }
        totalMemory.Add(memory)
    }

    return totalMemory, nil
}

func (a Aggregator) aggregateElasticsearchMemory() (resource.Quantity, error) {
    var esList esv1.ElasticsearchList

if err != nil {
    return resource.Quantity{}, errors.Wrap(err, "failed to aggregate Elasticsearch memory")
}

var total resource.Quantity
for _, es := range esList.Items {
    for _, nodeSet := range es.Spec.NodeSets {
        mem, err := containerMemLimits(
            nodeSet.PodTemplate.Spec.Containers,
            esv1.ElasticsearchContainerName,
            essettings.EnvEsJavaOpts, memFromJavaOpts,
            nodespec.DefaultMemoryLimits,
        )
        if err != nil {
            return resource.Quantity{}, errors.Wrap(err, "failed to aggregate Elasticsearch memory")
        }
        total.Add(multiply(mem, nodeSet.Count))
    }
}

return total, nil

func (a Aggregator) aggregateEnterpriseSearchMemory() (resource.Quantity, error) {
    var entList entv1.EnterpriseSearchList
    err := a.client.List(context.Background(), &entList)
    if err != nil {
        return resource.Quantity{}, errors.Wrap(err, "failed to aggregate Enterprise Search memory")
    }

    var total resource.Quantity
    for _, ent := range entList.Items {
        mem, err := containerMemLimits(
            ent.Spec.PodTemplate.Spec.Containers,
            entv1.EnterpriseSearchContainerName,
            enterprisesearch.EnvJavaOpts, memFromJavaOpts,
            enterprisesearch.DefaultMemoryLimits,
        )
        if err != nil {
            return resource.Quantity{}, errors.Wrap(err, "failed to aggregate Enterprise Search memory")
        }
        total.Add(multiply(mem, ent.Spec.Count))
    }

    return total, nil
}
func (a Aggregator) aggregateKibanaMemory() (resource.Quantity, error) {
    kbList kbv1.KibanaList
    err := a.client.List(context.Background(), &kbList)
    if err != nil {
        return resource.Quantity{}, errors.Wrap(err, "failed to aggregate Kibana memory")
    }

    var total resource.Quantity
    for _, kb := range kbList.Items {
        mem, err := containerMemLimits(
            kb.Spec.PodTemplate.Spec.Containers,
            kbv1.KibanaContainerName,
            kibana.EnvNodeOptions, memFromNodeOptions,
            kibana.DefaultMemoryLimits,
        )
        if err != nil {
            return resource.Quantity{}, errors.Wrap(err, "failed to aggregate Kibana memory")
        }
        total.Add(multiply(mem, kb.Spec.Count))
        log.V(1).Info("Collecting", "namespace", kb.Namespace, "kibana_name", kb.Name,
    }

    return total, nil
}

func (a Aggregator) aggregateApmServerMemory() (resource.Quantity, error) {
    asList apmv1.ApmServerList
    err := a.client.List(context.Background(), &asList)
    if err != nil {
        return resource.Quantity{}, errors.Wrap(err, "failed to aggregate APM Server memory")
    }

    var total resource.Quantity
    for _, as := range asList.Items {
        mem, err := containerMemLimits(
            as.Spec.PodTemplate.Spec.Containers,
            apmv1.ApmServerContainerName,
            "", nil, // no fallback with limits defined in an env var
            apmserver.DefaultMemoryLimits,
        )
        if err != nil {
            return resource.Quantity{}, errors.Wrap(err, "failed to aggregate APM Server memory")
        }
        total.Add(multiply(mem, as.Spec.Count))
        log.V(1).Info("Collecting", "namespace", as.Namespace, "apmserver_name", as.Name,
            "memory", mem.String(), "count", as.Spec.Count)
    }

    return total, nil
}
return resource.Quantity{}, errors.Wrap(err, "failed to aggregate APM Server memory")
}

total.Add(multiply(mem, as.Spec.Count))

return total, nil

// containerMemLimits reads the container memory limits from the resource specification with fallback
// on the environment variable and on the default limits
func containerMemLimits(
    containers []corev1.Container,
    containerName string,
    envVarName string,
    envLookup func(envVar string) (resource.Quantity, error),
    defaultLimit resource.Quantity,
) (resource.Quantity, error) {
    var mem resource.Quantity
    for _, container := range containers {
        //nolint:nestif
        if container.Name == containerName {
            mem = *container.Resources.Limits.Memory()
        }
    }

    // if memory is defined at the container level, maybe fallback to the environment variable
    if envLookup != nil && mem.IsZero() {
        for _, envVar := range container.Env {
            if envVar.Name == envVarName {
                var err error
                mem, err = envLookup(envVar.Value)
                if err != nil {
                    return resource.Quantity{}, err
                }
            }
        }
    }

    // if still no memory found, fallback to the default limits
    if mem.IsZero() {
        mem = defaultLimit
    }

    return mem, nil
// maxHeapSizeRe is the pattern to extract the max Java heap size (-Xmx<size>[gGmMkK] in binary units)
var maxHeapSizeRe = regexp.MustCompile("-Xmx\([0-9]+\)[gGmMkK]?\(\?\s.*\)\)"

// memFromJavaOpts extracts the maximum Java heap size from a Java options string, multiplies the value by 2
// (giving twice the JVM memory to the container is a common thing people do)
// and converts it to a resource.Quantity
func memFromJavaOpts(javaOpts string) (resource.Quantity, error) {
    match := maxHeapSizeRe.FindStringSubmatch(javaOpts)
    if len(match) != 3 {
        return resource.Quantity{}, errors.Errorf("cannot extract max jvm heap size from %s", javaOpts)
    }
    value, err := strconv.Atoi(match[1])
    if err != nil {
        return resource.Quantity{}, err
    }
    suffix := match[2]
    if suffix != "" {
        // capitalize the suffix and add `i` to have a surjection of [gGmMkK] in [GiMiKi]
        suffix = strings.ToUpper(match[2]) + "i"
    }
    // multiply by 2 and convert it to a quantity using the suffix
    return resource.ParseQuantity(fmt.Sprintf("%d%s", value*2, suffix))
}

// nodeHeapSizeRe is the pattern to extract the max heap size of the node memory (--max-old-space-size=<mb_size>)
var nodeHeapSizeRe = regexp.MustCompile("--max-old-space-size=(\[0-9]*)")

// memFromNodeOptions extracts the Node heap size from a Node options string and converts it to a
// resource.Quantity
func memFromNodeOptions(nodeOpts string) (resource.Quantity, error) {
    match := nodeHeapSizeRe.FindStringSubmatch(nodeOpts)
    if len(match) != 2 {
        return resource.Quantity{}, errors.Errorf("cannot extract max node heap size from %s", javaOpts)
    }
    return resource.ParseQuantity(match[1] + "M")
}

// multiply multiplies a resource.Quantity by a value
func multiply(q resource.Quantity, v int32) resource.Quantity {
    var result resource.Quantity
    result.Set(q.Value() * int64(v))
    return result
}

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package license

import (
    "github.com/elastic/cloud-on-k8s/pkg/controller/common"
    "sigs.k8s.io/controller-runtime/pkg/client"
)

const ( // LicenseLabelName is a label pointing to the name of the source enterprise license.
    LicenseLabelName = "license.k8s.elastic.co/name"
    LicenseLabelType = "license.k8s.elastic.co/type"
    LicenseLabelScope = "license.k8s.elastic.co/scope"
    Type = "license"
    EULAAnnotation = "elastic.co/eula"
    EULAAcceptedValue = "accepted"
    LicenseInvalidAnnotation = "license.k8s.elastic.co/invalid"
)

type LicenseScope string

const ( // LicenseScopeOperator is a label pointing to the name of the operator scope.
    LicenseScopeOperator LicenseScope = "operator"
    LicenseScopeElasticsearch LicenseScope = "elasticsearch"
)

// LabelsForOperatorScope creates a map of labels for operator scope with licence type set to the given value.
func LabelsForOperatorScope(t OperatorLicenseType) map[string]string { return map[string]string{
    common.TypeLabelName: Type,
    LicenseLabelScope: string(LicenseScopeOperator),
    LicenseLabelType: string(t),
}
}

func NewLicenseByScopeSelector(scope LicenseScope) client.MatchingLabels { return map[string]string{
    LicenseLabelScope: string(scope),
}
}

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package license

import (
const (  
    name = "license-controller"
)

// defaultSafetyMargin is the duration used by this controller to ensure licenses are updated well before expiry  
// In case of any operational issues affecting this controller clusters will have enough runway on their current license.  
// defaultSafetyMargin = 30 * 24 * time.Hour  
// minimumRetryInterval = 1 * time.Hour  
)

var log = ulog.Log.WithName(name)

// Reconcile reads the cluster license for the cluster being reconciled. If found, it checks whether it is still valid.  
// If there is none it assigns a new one.  
// In any case it schedules a new reconcile request to be processed when the license is about to expire.  
// This happens independently from any watch triggered reconcile request.  
func (r *ReconcileLicenses) Reconcile(ctx context.Context, request reconcile.Request) (reconcile.Result, error) {  
    defer common.LogReconciliationRun(log, request, "es_name", &r.iteration)()  
    results := r.reconcileInternal(request)  
    current, err := results.Aggregate()  
    return reconcile.Result{},
func Add(mgr manager.Manager, p operator.Parameters) error {
    r := newReconciler(mgr, p)
    c, err := common.NewController(mgr, name, r, p)
    if err != nil {
        return err
    }
    return addWatches(c, r.Client)
}

func newReconciler(mgr manager.Manager, params operator.Parameters) *ReconcileLicenses {
    c := mgr.GetClient()
    return &ReconcileLicenses{
        Client:  c,
        checker: license.NewLicenseChecker(c, params.OperatorNamespace),
    }
}

func nextReconcile(expiry time.Time, safety time.Duration) reconcile.Result {
    return nextReconcileRelativeTo(time.Now(), expiry, safety)
}

func nextReconcileRelativeTo(now, expiry time.Time, safety time.Duration) reconcile.Result {
    // short-circuit to default if no expiry given
    if expiry.IsZero() {
        return reconcile.Result{
            Requeue: true,
        }
    }
    requeueAfter := expiry.Add(-1 * (safety / 2)).Sub(now)
    if requeueAfter <= 0 {
        return reconcile.Result{
            Requeue: true,
        }
    }
    return reconcile.Result{
        // requeue at expiry minus safetyMargin/2 to ensure we actually reissue a license on the next attempt
        RequeueAfter: requeueAfter,
    }
}

func addWatches(c controller.Controller, k8sClient k8s.Client) error {
    // Watch for changes to Elasticsearch clusters.
if err := c.Watch(&source.Kind{Type: &esv1.Elasticsearch{}}, &handler.EnqueueRequestForObject{},
); err != nil {
    return err
}

if err := c.Watch(&source.Kind{Type: &corev1.Secret{}}, handler.EnqueueRequestsFromMapFunc(func(object
    client.Object) []reconcile.Request {
    secret, ok := object.(*corev1.Secret)
    if !ok {
        log.Error(pkgerrors.Errorf("unexpected object type %T in watch handler, expected Secret", object),
            "dropping watch event due to error in handler")
        return nil
    }
    if !license.IsOperatorLicense(*secret) {
        return nil
    }
    // if a license is added/modified we want to update for potentially all clusters managed by this instance
    // of ECK which is why we are listing all Elasticsearch clusters here and trigger a reconciliation
    rs, err := reconcileRequestsForAllClusters(k8sClient)
    if err != nil {
        // dropping the event(s) at this point
        log.Error(err, "failed to list affected clusters in enterprise license watch")
        return nil
    }
    return rs
},
); err != nil {
    return err
}

return nil

var _ reconcile.Reconciler = &ReconcileLicenses{}

// ReconcileLicenses reconciles EnterpriseLicenses with existing Elasticsearch clusters and creates ClusterLicenses
// for them.
type ReconcileLicenses struct {
    k8s.Client
    // iteration is the number of times this controller has run its Reconcile method
    iteration uint64
    checker   license.Checker
}

// findLicense tries to find the best Elastic stack license available.
func findLicense(c k8s.Client, checker license.Checker, minVersion *version.Version) (esclient.License, string,
bool) {
    licenseList, errs := license.EnterpriseLicensesOrErrors(c)
    if len(errs) > 0 {
        log.Info("Ignoring invalid license objects", "errors", errs)
    }
    return license.BestMatch(minVersion, licenseList, checker.Valid)
}

// reconcileSecret upserts a secret in the namespace of the Elasticsearch cluster containing the signature of its license.
func reconcileSecret(
    c k8s.Client,
    cluster esv1.Elasticsearch,
    parent string,
    esLicense esclient.License,
) error {
    secretName := esv1.LicenseSecretName(cluster.Name)

    licenseBytes, err := json.Marshal(esLicense)
    if err != nil {
        return err
    }

    expected := corev1.Secret{
        ObjectMeta: metav1.ObjectMeta{
            Name:      secretName,
            Namespace: cluster.Namespace,
            Labels: map[string]string{
                common.TypeLabelName:      license.Type,
                license.LicenseLabelName:  parent,
                license.LicenseLabelScope: string(license.LicenseScopeElasticsearch),
                license.LicenseLabelType:  esLicense.Type,
            },
            Data: map[string][]byte{
                license.FileName: licenseBytes,
            },
        },
    }

    // create/update a secret in the cluster's namespace containing the same data
    _, err = reconciler.ReconcileSecret(c, expected, &cluster)
    return err
}

// reconcileClusterLicense upserts a cluster license in the namespace of the given Elasticsearch cluster.
// Returns time to next reconciliation, bool whether a license is configured at all and optional error.
func (r *ReconcileLicenses) reconcileClusterLicense(cluster esv1.Elasticsearch) (time.Time, bool, error) {
    var noResult time.Time
    minVersion, err := r.minVersion(cluster)
if err != nil {
    return noResult, true, err
}

matchingSpec, parent, found := findLicense(r, r.checker, minVersion)
if !found {
    // no license, delete cluster level licenses to revert to basic
    secretName := esv1.LicenseSecretName(cluster.Name)
        ObjectMeta: k8s.ToObjectMeta(types.NamespacedName{
            Namespace: cluster.Namespace,
            Name:      secretName,
        }),
    })
    if err != nil && !errors.IsNotFound(err) {
    }
    return noResult, true, nil
}


// make sure the signature secret is created in the cluster's namespace
if err := reconcileSecret(r, cluster, parent, matchingSpec); err != nil {
    return noResult, false, err
}

return matchingSpec.ExpiryTime(), false, nil

func (r *ReconcileLicenses) minVersion(cluster esv1.Elasticsearch) (*version.Version, error) {
    pods, err := sset.GetActualPodsForCluster(r, cluster)
    if err != nil {
        return nil, err
    }

    if err != nil {
        return nil, err
    }

    if minVersion == nil {
        if err != nil {
            return nil, err
        }
        minVersion = &v
    }

    return minVersion, nil
}
func (r *ReconcileLicenses) reconcileInternal(request reconcile.Request) *reconciler.Results {
    res := &reconciler.Results{

    // Fetch the cluster to ensure it still exists
    cluster := esv1.Elasticsearch{
    err := r.Get(context.Background(), request.NamespacedName, &cluster)
    if err != nil {
        if errors.IsNotFound(err) {
            // nothing to do no cluster
            return res
        }
        return res.WithError(err)
    }

    if !cluster.DeletionTimestamp.IsZero() {
        // cluster is being deleted nothing to do
        return res
    }

    newExpiry, noLicense, err := r.reconcileClusterLicense(cluster)
    if err != nil {
        return res.WithError(err)
    }
    margin := defaultSafetyMargin
    if noLicense {
        // don't apply safety margin if we don't have a license but use requested requeue time as specified in newExpiry
        margin = 0
    }
    return res.WithResult(nextReconcile(newExpiry, margin))
}

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package elasticsearch

import {
    "encoding/json"
    "time"

    "github.com/elastic/cloud-on-k8s/pkg/controller/common/license"
    "github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client"
    "github.com/elastic/cloud-on-k8s/pkg/utils/chrono"
    "github.com/google/uuid"
}

type ESLicense struct {
type licenseSpec struct {
    UID                string `json:"uid"`
    LicenseType        string `json:"type"`
    IssueDateInMillis  int64  `json:"issue_date_in_millis,omitempty"`
    ExpiryDateInMillis int64  `json:"expiry_date_in_millis,omitempty"`
    MaxNodes           *int   `json:"max_nodes"`
    MaxResourceUnits   int    `json:"max_resource_units,omitempty"`
    IssuedTo           string `json:"issued_to"`
    Issuer             string `json:"issuer"`
    StartDateInMillis  int64  `json:"start_date_in_millis,omitempty"`
}

func (e ESLicense) SignableContentBytes() ([]byte, error) {
    return json.Marshal(licenseSpec{
        UID:                e.UID,
        LicenseType:        e.Type,
        IssueDateInMillis:  e.IssueDateInMillis,
        ExpiryDateInMillis: e.ExpiryDateInMillis,
        MaxNodes:           nil, // assume v5 license w/ ERU
        MaxResourceUnits:   e.MaxResourceUnits,
        IssuedTo:           e.IssuedTo,
        Issuer:             e.Issuer,
        StartDateInMillis:  e.StartDateInMillis,
    })
}

func (e ESLicense) Version() int {
    return 5 // we only test the new enterprise capable license version
}

var _ license.Signable = &ESLicense{
}

func GenerateTestLicense(signer *license.Signer) (client.License, error) {
    uuid, err := uuid.NewUUID()
    if err != nil {
        return client.License{}, err
    }
    licenseSpec := client.License{
        UID:                uuid.String(),
        Type:               "enterprise",
        IssueDateInMillis:  chrono.ToMillis(time.Now().Add(-3 * 24 * time.Hour)),
        ExpiryDateInMillis: chrono.ToMillis(time.Now().Add(30 * 24 * time.Hour)),
        MaxResourceUnits:   100,
        IssuedTo:           "ECK CI",
        Issuer:             "ECK e2e job",
    }

    if err := signer.Sign(licenseSpec); err != nil {
        return client.License{}, err
    }
    return client.License{UID: uuid.String(), Type: "enterprise", IssueDate: IssueDateInMillis, ExpiryDate: ExpiryDateInMillis, MaxResourceUnits: 100, IssuedTo: "ECK CI", Issuer: "ECK e2e job"}, nil
}
package license

import ulog "github.com/elastic/cloud-on-k8s/pkg/utils/log"

var log = ulog.Log.WithName("license")

const (FileName is the name used in the license secret to point to the license data.
FileName = "license"
}

package elasticsearch

import (context"crypto/rsa"encoding/json"fmt"testing
esv1 "github.com/elastic/cloud-on-k8s/pkg/apis/elasticsearch/v1""github.com/elastic/cloud-on-k8s/pkg/controller/common""github.com/elastic/cloud-on-k8s/pkg/controller/common/license""github.com/elastic/cloud-on-k8s/pkg/controller/elasticsearch/client""github.com/elastic/cloud-on-k8s/pkg/utils/stringsutil""github.com/elastic/cloud-on-k8s/test/e2e/test""github.com/stretchr/testify/require"corev1 "k8s.io/api/core/v1"apierrors "k8s.io/api/machinery/pkg/api/errors"metav1 "k8s.io/api/machinery/pkg/apis/meta/v1""k8s.io/api/machinery/pkg/types"
)
type LicenseTestContext struct {
    esClient client.Client
    k        *test.K8sClient
    es       esv1.Elasticsearch
}

func NewLicenseTestContext(k *test.K8sClient, es esv1.Elasticsearch) LicenseTestContext {
    return LicenseTestContext{
        k:  k,
        es: es,
    }
}

func (ltctx *LicenseTestContext) Init() test.Step {
    //nolint:thelper
    return test.Step{
        Name: "Creating Elasticsearch client",
        Test: func(t *testing.T) {
            esClient, err := NewElasticsearchClient(ltctx.es, ltctx.k)
            require.NoError(t, err)
            ltctx.esClient = esClient
        },
    }
}

func (ltctx *LicenseTestContext) CheckElasticsearchLicenseFn(expectedTypes ...client.ElasticsearchLicenseType) error {
    l, err := ltctx.esClient.GetLicense(context.Background())
    if err != nil {
        return err
    }
    expectedStrings := make([]string, len(expectedTypes))
    for i, et := range expectedTypes {
        expectedStrings[i] = string(et)
    }
    if !stringsutil.StringInSlice(l.Type, expectedStrings) {
        return fmt.Errorf("expectedTypes license type %v got %s", expectedStrings, l.Type)
    }
    return nil
}

func (ltctx *LicenseTestContext) CheckElasticsearchLicense(expectedTypes ...client.ElasticsearchLicenseType) test.Step {
    return test.Step{
        Name: fmt.Sprintf("Elasticsearch license should be %v", expectedTypes),
        Test: test.Eventually(func() error {
            ltctx.CheckElasticsearchLicenseFn(expectedTypes...)
        }
    }
}
func (ltctx *LicenseTestContext) CreateEnterpriseLicenseSecret(secretName string, licenseBytes []byte) test.Step {
    //nolint:thelper
    return test.Step{
        Name: "Creating an Enterprise license secret",
        Test: func(t *testing.T) {
            test.CreateEnterpriseLicenseSecret(t, ltctx.k, secretName, licenseBytes)
        },
    }
}

func (ltctx *LicenseTestContext) CreateTrialExtension(secretName string, privateKey *rsa.PrivateKey) test.Step {
    //nolint:thelper
    return test.Step{
        Name: "Creating a trial extension secret",
        Test: func(t *testing.T) {
            signer := license.NewSigner(privateKey)
            clusterLicense, err := GenerateTestLicense(signer)
            require.NoError(t, err)
            trialExtension := license.EnterpriseLicense{
                License: license.LicenseSpec{
                    // reuse ES license values where possible for simplicity
                    UID:                clusterLicense.UID,
                    Type:               license.LicenseTypeEnterpriseTrial,
                    IssueDateInMillis:  clusterLicense.IssueDateInMillis,
                    ExpiryDateInMillis: clusterLicense.ExpiryDateInMillis,
                    MaxResourceUnits:   100,
                    IssuedTo:           clusterLicense.IssuedTo,
                    Issuer:             clusterLicense.Issuer,
                    StartDateInMillis:  clusterLicense.StartDateInMillis,
                    ClusterLicenses:    []license.ElasticsearchLicense{
                        {License: clusterLicense},
                    },
                },
                Signature: string(signer.Sign(trialExtension)),
                LicenseBytes: string(json.Marshal(trialExtension)),
            }
            require.NoError(t, err)
            ltctx.CreateEnterpriseLicenseSecret(secretName, trialExtension.Bytes()).Test(t)
        },
    }
}
func (ltctx *LicenseTestContext) CreateEnterpriseTrialLicenseSecret(secretName string) test.Step {
    return test.Step{
        Name: "Creating enterprise trial license secret",
        Test: test.Eventually(func() error {
            sec := corev1.Secret{
                ObjectMeta: metav1.ObjectMeta{
                    Namespace: test.Ctx().ManagedNamespace(0),
                    Name:      secretName,
                    Labels: map[string]string{
                        license.LicenseLabelType: string(license.LicenseTypeEnterpriseTrial),
                        common.TypeLabelName:     license.Type,
                    },
                    Annotations: map[string]string{
                        license.EULAAnnotation: license.EULAAcceptedValue,
                    },
                },
            }
            return ltctx.k.CreateOrUpdate(&sec)
        })
    }
}

func (ltctx *LicenseTestContext) checkEnterpriseTrialLicenseValidation(secretName string, valid bool) test.Step {
    return test.Step{
        Name: "Check enterprise trial license is annotated as invalid",
        Test: test.Eventually(func() error {
            var licenseSecret corev1.Secret
            err := ltctx.k.Client.Get(context.Background(), types.NamespacedName{
                Namespace: test.Ctx().ManagedNamespace(0),
                Name:      secretName,
            }, &licenseSecret)
            if err != nil {
                return err
            }
            _, exists := licenseSecret.Annotations[license.LicenseInvalidAnnotation]
            if exists == valid {
                return fmt.Errorf("trial license should have validation annotation [%v] and annotation was present [%v]", !valid, exists)
            }
            return nil
        })
    }
}

func (ltctx *LicenseTestContext) CheckEnterpriseTrialLicenseValid(secretName string) test.Step {
    return ltctx.checkEnterpriseTrialLicenseValidation(secretName, true)
}

func (ltctx *LicenseTestContext) checkEnterpriseTrialLicenseValidation(secretName string, valid bool) test.Step {
    return test.Step{
        Name: "Check enterprise trial license is annotated as invalid",
        Test: test.Eventually(func() error {
            var licenseSecret corev1.Secret
            err := ltctx.k.Client.Get(context.Background(), types.NamespacedName{
                Namespace: test.Ctx().ManagedNamespace(0),
                Name:      secretName,
            }, &licenseSecret)
            if err != nil {
                return err
            }
            _, exists := licenseSecret.Annotations[license.LicenseInvalidAnnotation]
            if exists == valid {
                return fmt.Errorf("trial license should have validation annotation [%v] and annotation was present [%v]", !valid, exists)
            }
            return nil
        })
    }
}

func (ltctx *LicenseTestContext) CheckEnterpriseTrialLicenseValid(secretName string) test.Step {
    return ltctx.checkEnterpriseTrialLicenseValidation(secretName, true)
func (ltctx *LicenseTestContext) CheckEnterpriseTrialLicenseInvalid(secretName string) test.Step {
    return ltctx.checkEnterpriseTrialLicenseValidation(secretName, false)
}

func (ltctx *LicenseTestContext) DeleteEnterpriseLicenseSecret(licenseSecretName string) test.Step {
    return test.Step{
        Name: "Removing any test enterprise license secrets",
        Test: test.Eventually(func() error {
            // Delete operator license secret
            sec := corev1.Secret{
                ObjectMeta: metav1.ObjectMeta{
                    Namespace: test.Ctx().ManagedNamespace(0),
                    Name:      licenseSecretName,
                },
            }
            err := ltctx.k.Client.Delete(context.Background(), &sec)
            if err != nil && !apierrors.IsNotFound(err) {
                return err
            }
            return nil
        }),
    }
}

func (ltctx *LicenseTestContext) DeleteAllEnterpriseLicenseSecrets() test.Step {
    return test.Step{
        Name: "Removing all Enterprise license secrets",
        Test: func(t *testing.T) {
            test.DeleteAllEnterpriseLicenseSecrets(t, ltctx.k)
        },
    }
}

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package trial

import {
    "bytes"
    "context"
    "fmt"
    "reflect"
    "sync/atomic"
    "time"
const (  
  name = "trial-controller"
)

EULAValidationMsg = "Please set the annotation elastic.co/eula to "accepted" to accept the EULA"

trialOnlyOnceMsg = "trial can be started only once"

var (  
  log = ulog.LogWithName(name)  
  userFriendlyMsgs = map[licensing.LicenseStatus]string{    
    licensing.LicenseStatusInvalid: "trial license signature invalid",    
    licensing.LicenseStatusExpired: "trial license expired",  
  }  
)

// ReconcileTrials reconciles Enterprise trial licenses.
type ReconcileTrials struct {  
  k8s.Client  
  recorder record.EventRecorder  
  iteration int64  
  trialState licensing.TrialState  
  operatorNamespace string  
}

// Reconcile watches a trial status secret. If it finds a trial license it checks whether a trial has been started.  
// If not it starts the trial period if the user has expressed intent to do so.  
// If a trial is already running it validates the trial license.
func (r *ReconcileTrials) Reconcile(ctx context.Context, request reconcile.Request) (reconcile.Result, error) {
// atomically update the iteration to support concurrent runs.
currentIteration := atomic.AddInt64(&r.iteration, 1)
iterationStartTime := time.Now()
def er func() {
}

secret, license, err := licensing.TrialLicense(r, request.NamespacedName)
if err != nil && errors.IsNotFound(err) {
    log.Info("Trial license secret has been deleted by user, but trial had been started previously.")
    return reconcile.Result{}, nil
}
if err != nil {
    return reconcile.Result{}, pkgerrors.Wrap(err, "while fetching trial license")
}

if !license.IsECKManagedTrial() {
    // ignore externally generated licenses
    return reconcile.Result{}, nil
}

validationMsg := validateEULA(secret)
if validationMsg != "" {
    return r.invalidOperation(secret, validationMsg)
}

// 1. reconcile trial status secret
if err := r.reconcileTrialStatus(request.NamespacedName, license); err != nil {
    return reconcile.Result{}, pkgerrors.Wrap(err, "while reconciling trial status")
}

// 2. reconcile the trial license itself
trialLicensePopulated := license.IsMissingFields() == nil
licenseStatus := r.validateLicense(license)
switch {
case !trialLicensePopulated && r.trialState.IsTrialStarted():
    // user wants to start a trial for the second time
    return r.invalidOperation(secret, trialOnlyOnceMsg)
case !trialLicensePopulated && !r.trialState.IsTrialStarted():
    // user wants to init a trial for the first time
    return r.initTrialLicense(secret, license)
case trialLicensePopulated && !validLicense(licenseStatus):
    // existing license is invalid (expired or tampered with)
    return r.invalidOperation(secret, userFriendlyMsgs[licenseStatus])
case trialLicensePopulated && validLicense(licenseStatus) && !r.trialState.IsTrialStarted():
    // user init trial license is valid, but trial state is not started
    return r.initTrialLicense(secret, license)
}
// valid license, let's consider the trial started and complete the activation
return r.completeTrialActivation(request.NamespacedName)

// all good nothing to do
}
return reconcile.Result{ }, nil

func (r *ReconcileTrials) reconcileTrialStatus(licenseName types.NamespacedName, license
licensing.EnterpriseLicense) error {
var trialStatus corev1.Secret
err := r.Get(context.Background(), types.NamespacedName{Namespace: r.operatorNamespace, Name:
licensing.TrialStatusSecretKey}, &trialStatus)
if errors.IsNotFound(err) {
// we have no state in memory nor in the status secret: start the activation process
if err := r.startTrialActivation(); err != nil {
return err
}
}

// we have state in memory but the status secret is missing: recreate it
trialStatus, err = licensing.ExpectedTrialStatus(r.operatorNamespace, licenseName, r.trialState)
if err != nil {
return fmt.Errorf("while creating expected trial status %w", err)
}
return r.Create(context.Background(), &trialStatus)

// if trial status exists, but we need to update it because:
// - has been tampered with
// - we need to complete the trial activation because if failed on a previous attempt
// - we just regenerated the state after a crash
expected, err := licensing.ExpectedTrialStatus(r.operatorNamespace, licenseName, r.trialState)
if err != nil {
return err
}

// the status secret is there but we don’t have anything in memory: recover the state
if r.trialState.IsEmpty() {
recoveredState, err := recoverState(license, trialStatus)
if err != nil {
return err
}
r.trialState = recoveredState
}
// if trial status exists, but we need to update it because:
// - has been tampered with
// - we need to complete the trial activation because if failed on a previous attempt
// - we just regenerated the state after a crash
expected, err := licensing.ExpectedTrialStatus(r.operatorNamespace, licenseName, r.trialState)
if err != nil {
return err
}
if reflect.DeepEqual(expected.Data, trialStatus.Data) {
    return nil
}

trialStatus.Data = expected.Data
return r.Update(context.Background(), &trialStatus)

func recoverState(license licensing.EnterpriseLicense, trialStatus corev1.Secret) (licensing.TrialState, error) {
    // allow new trial state only if we don't have license that looks like it has been populated previously
    allowNewState := license.IsMissingFields() != nil
    // create new keys if the operator failed just before the trial was started
    trialActivationInProgress := bytes.Equal(trialStatus.Data[licensing.TrialActivationKey], []byte("true"))
    if trialActivationInProgress && allowNewState {
        return licensing.NewTrialState()
    }
    // otherwise just recover the public key
    return licensing.NewTrialStateFromStatus(trialStatus)
}

func (r *ReconcileTrials) startTrialActivation() error {
    state, err := licensing.NewTrialState()
    if err != nil {
        return err
    }
    r.trialState = state
    return nil
}

func (r *ReconcileTrials) completeTrialActivation(license types.NamespacedName) (reconcile.Result, error) {
    if r.trialState.CompleteTrialActivation() {
        expectedStatus, err := licensing.ExpectedTrialStatus(r.operatorNamespace, license, r.trialState)
        if err != nil {
            return reconcile.Result{}, err
        }
        _, err = reconciler.ReconcileSecret(r, expectedStatus, nil)
        return reconcile.Result{}, err
    }
    return reconcile.Result{}, nil
}

func (r *ReconcileTrials) initTrialLicense(secret corev1.Secret, license licensing.EnterpriseLicense) (reconcile.Result, error) {
    if err := r.trialState.InitTrialLicense(&license); err != nil {
        return reconcile.Result{}, err
    }
    return reconcile.Result{}, licensing.UpdateEnterpriseLicense(r, secret, license)
}
func (r *ReconcileTrials) invalidOperation(secret corev1.Secret, msg string) (reconcile.Result, error) {
    setValidationMsg(&secret, msg)
    return reconcile.Result{}, r.Update(context.Background(), &secret)
}

func validLicense(status licensing.LicenseStatus) bool {
    return status == licensing.LicenseStatusValid
}

func (r *ReconcileTrials) validateLicense(license licensing.EnterpriseLicense) licensing.LicenseStatus {
    return r.trialState.LicenseVerifier().Valid(license, time.Now())
}

func validateEULA(trialSecret corev1.Secret) string {
    if licensing.IsEnterpriseTrial(trialSecret) &&
    trialSecret.Annotations[licensing.EULAAnnotation] != licensing.EULAAcceptedValue {
        return EULAValidationMsg
    }
    return ""
}

func setValidationMsg(secret *corev1.Secret, violation string) {
    if secret.Annotations == nil {
        secret.Annotations = map[string]string{}
    }
    log.Info("trial license invalid", "reason", violation)
    secret.Annotations[licensing.LicenseInvalidAnnotation] = violation
}

func newReconciler(mgr manager.Manager, params operator.Parameters) *ReconcileTrials {
    return &ReconcileTrials{
        Client:            mgr.GetClient(),
        recorder:          mgr.GetEventRecorderFor(name),
        operatorNamespace: params.OperatorNamespace,
    }
}

func addWatches(c controller.Controller) error {
    // Watch the trial status secret and the enterprise trial licenses as well
    return c.Watch(&source.Kind{Type: &corev1.Secret{}}, handler.EnqueueRequestsFromMapFunc(func(obj
        client.Object) []reconcile.Request {
            secret, ok := obj.(corev1.Secret)
            if !ok {
                log.Error(fmt.Errorf("object of type %T in secret watch", obj), "dropping event due to type error")
            }
            if licensing.IsEnterpriseTrial(*secret) {
                return []reconcile.Request{
                    
    }
if obj.GetName() != licensing.TrialStatusSecretKey {
    return nil
}
return []reconcile.Request{
    NamespacedName: types.NamespacedName{
        Namespace: secret.Annotations[licensing.TrialLicenseSecretNamespace],
        Name: secret.Annotations[licensing.TrialLicenseSecretName],
    },
}

// Add creates a new Trial Controller and adds it to the Manager with default RBAC. The Manager will set fields on
// the Controller
// and Start it when the Manager is Started.
func Add(mgr manager.Manager, params operator.Parameters) error {
    r := newReconciler(mgr, params)
    c, err := common.NewController(mgr, name, r, params)
    if err != nil {
        return err
    }
    return addWatches(c)
}

var _, reconcile.Reconciler = &ReconcileTrials{}
func TestClient_GetLicense(t *testing.T) {
    tests := []struct {
        expectedPath string
        version      version.Version
    }{
        {expectedPath: `/xpack/license`, version: version.MustParse(`6.8.0`)},
        {expectedPath: `/license`, version: version.MustParse(`7.0.0`)},
    }
    for _, tt := range tests {
        testClient := NewMockClient(tt.version, func(req *http.Request) *http.Response {
            require.Equal(t, tt.expectedPath, req.URL.Path)
            return &http.Response{
                StatusCode: 200,
                Body:       ioutil.NopCloser(strings.NewReader(fixtures.LicenseGetSample)),
                Header:     make(http.Header),
                Request:    req,
            }
        })
        got, err := testClient.GetLicense(context.Background())
        assert.NoError(t, err)
        assert.Equal(t, `893361dc-9749-4997-93cb-802e3d7fa4xx`, got.UID)
        assert.Equal(t, `platinum`, got.Type)
        assert.EqualValues(t, time.Unix(0, 1548115200000*int64(time.Millisecond)).UTC(), *got.IssueDate)
        assert.Equal(t, int64(1548115200000), got.IssueDateInMillis)
        assert.EqualValues(t, time.Unix(0, 1561247999999*int64(time.Millisecond)).UTC(), *got.ExpiryDate)
        assert.Equal(t, int64(1561247999999), got.ExpiryDateInMillis)
        assert.Equal(t, 100, got.MaxNodes)
        assert.Equal(t, `issuer`, got.Issuer)
        assert.Equal(t, time.Unix(0, 1548115200000*int64(time.Millisecond)).UTC(), *got.StartDateInMillis)
    }
}

func TestClient_UpdateLicense(t *testing.T) {
}
tests := []struct {
  expectedPath string
  version      version.Version
}
{
  expectedPath: "/_xpack/license",
  version:      version.MustParse("6.8.0"),
},
{
  expectedPath: "/_license",
  version:      version.MustParse("7.0.0"),
}
for _, tt := range tests {
  testClient := NewMockClient(tt.version, func(req *http.Request) *http.Response {
    require.Equal(t, tt.expectedPath, req.URL.Path)
    return &http.Response{
      StatusCode: 200,
      Body:       ioutil.NopCloser(strings.NewReader(fixtures.LicenseUpdateResponseSample)),
      Header:     make(http.Header),
      Request:    req,
    }
  })
  in := LicenseUpdateRequest{
    Licenses: []License{
      {
        UID:                "893361dc-9749-4997-93cb-802e3d7fa4xx",
        Type:               "basic",
        IssueDateInMillis: 0,
        ExpiryDateInMillis: 0,
        MaxNodes:           1,
        IssuedTo:           "unit-test",
        Issuer:             "test-issuer",
        Signature:          "xx",
      },
    },
  }
  got, err := testClient.UpdateLicense(context.Background(), in)
  assert.NoError(t, err)
  assert.Equal(t, true, got.Acknowledged)
  assert.Equal(t, "valid", got.LicenseStatus)
}

func TestClient_StartBasic(t *testing.T) {
  tests := []struct {
    expectedPath string
    version      version.Version
  }
  {
}{
{
expectedPath: "/_xpack/license/start_basic",
version:
version.MustParse("6.8.0"),
},
{
expectedPath: "/_license/start_basic",
version:
version.MustParse("7.0.0"),
},
}
for _, tt := range tests {
testClient := NewMockClient(tt.version, func(req *http.Request) *http.Response {
require.Equal(t, tt.expectedPath, req.URL.Path)
return &http.Response{
StatusCode: 200,
Body:
ioutil.NopCloser(strings.NewReader(`{"acknowledged":true,"basic_was_started":true}`)),
Header: make(http.Header),
Request: req,
}
})
got, err := testClient.StartBasic(context.Background())
assert.NoError(t, err)
assert.Equal(t, true, got.Acknowledged)
assert.Equal(t, true, got.BasicWasStarted)
assert.Empty(t, got.ErrorMessage)
}
}
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package client
import "context"
type LicenseClient interface {
// GetLicense returns the currently applied license. Can be empty.
GetLicense(ctx context.Context) (License, error)
// UpdateLicense attempts to update cluster license with the given licenses.
UpdateLicense(ctx context.Context, licenses LicenseUpdateRequest) (LicenseUpdateResponse, error)
// StartBasic creates or reverts to a basic license.
StartBasic(ctx context.Context) (StartBasicResponse, error)
// StartTrial starts a 30-day trial period (which gives access to platinum features).
StartTrial(ctx context.Context) (StartTrialResponse, error)
}
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Posted Date: April 20, 2018

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1.904 libxml-parser-perl 2.44-2build3

1.904.1 Available under license:

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---
abstract: 'A perl module for parsing XML documents'
author:
  - 'Clark Cooper (coopercc@netheaven.com)'
build_requires:
  Test::More: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.04, CPAN::Meta::Converter version 2.143240'
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:
  repository: http://github.com/toddr/XML-Parser
  version: '2.44'

Found in path(s):
* /opt/cola/permits/1155784464_1619045332.74/0/libxml-parser-perl-2-44-orig-1-tar-gz/XML-Parser-2.44/META.yml

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# LWPExternEnt.pl
#
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#
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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);

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$xp->base($uri);

return $res->content;
}  # End lwp_ext_ent_handler

sub lwp_ext_ent_cleanup {
    my ($xp) = @_;

    $xp->base(pop @{$xp->{_BaseStack}});
}  # End lwp_ext_ent_cleanup

1;

Found in path(s):
* /opt/cola/permits/1155784464_1619045332.74/0/libxml-parser-perl-2-44-orig-1-tar-gz/XML-Parser-2.44/Parser/LWPExternEnt.pl
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Found in path(s):
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* /opt/cola/permits/1155784464_1619045332.74/0/libxml-parser-perl-2-44-orig-1-tar-gz/XML-Parser-2.44/samples/canonical
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/**
 * Expat.xs
 *
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 *
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 * *
 */

Found in path(s):
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 * encoding.h
 */
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*/

Found in path(s):
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<![CDATA[<!ENTITY % pub "&xc9;ditions Gallimard" >
<!ENTITY rights "All rights reserved" >
<!ENTITY book "La Peste: Albert Camus, 1947 %pub; &rights; >]]>

Found in path(s):
* /opt/cola/permits/1155784464_1619045332.74/0/libxml-parser-perl-2-44-orig-1-tar-gz/XML-Parser-2.44/samples/REC-xml-19980210.xml
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XML::Parser Version 2.40

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This is a Perl extension interface to James Clark's XML parser, expat.
It requires at least version 5.004 of perl and it requires that you have release 1.95.0 or greater of expat installed. You can download expat from http://sourceforge.net/projects/expat/

Best way is to install expat development package with your OS package manager.
Debian/Ubuntu/similar: libexpat1-dev (old versions: expat-dev)

After that run `cpan XML::Parser`.

You can install this module from OS package too, but CPAN has most fresh version.
CentOS/RHEL/Fedora: perl-XML-Parser
Debian/Ubuntu/similar: should be already installed

XML::Parser installation requires gcc, so on MacOS X you need to download and run Xcode from Mac app store (~1.5 GB)

The documentation for this extension can be found in pod format at the end
of the files Parser.pm and Expat/Expat.pm. The perldoc program, provided with the perl distribution, can be used to view this documentation.

This was modified from the original XML::Parser created by Larry Wall.

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

To manually install this module, cd to the directory that contains this README file and type the following:

perl Makefile.PL

Alternatively, if you plan to install XML::Parser somewhere other than your system's perl library directory. You can type something like this:

perl Makefile.PL PREFIX=/home/me/perl INSTALLDIRS=perl

Then to build you run make.

make

You can then test the module by typing:

make test

There are some sample utilities in the samples directory along with an xml form of the XML specification to test them on. You may need to change the '#!' line at the top of these utilities to what is appropriate for your system. If you're going to play around with them prior to installing the module, you would need to add the blib paths to your perl search path, like this (assuming your current directory is samples):

perl -I../blib/lib -I../blib/arch xmlcomments REC-xml-19980210.xml

or set your PERLLIB environment variable.

If you have write access to the installation directories, you may then install by typing:

make install

Discussion on features and bugs of this software and general discussion on topics relating to perl and XML takes place on the perl-xml mailing list, to which you can subscribe by sending mail to:

subscribe-perl-xml@lyris.activestate.com
Differences from Version 2.30

Version 2.31 is a minor bugfix release to allow XML::Parser to work under the forthcoming Perl 5.8.0 release. There are no functional changes.

Differences from Version 2.29

Expat is no longer included with this package. It must now be already installed on your system as a library. You may download the library version of expat from http://sourceforge.net/projects/expat/. After downloading, expat must be configured (an automatic script does this), built and installed.

A workaround has been provided for those people who couldn't compile Expat.xs with a perl 5.6.0 with USE_5005THREADS on.

A bug that prevented IO::Handler from being read by the parse method has been fixed.

Fixed a bug in reading external entities with incremental parsing.

Clark Cooper
coopercc@netheaven.com

1.905 expat 2.4.1

1.905.1 Available under license:

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1.906 docker-spdystream 0.0.0-20181023171402-6480d4af844c
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1.911 python-click 6.7-3

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
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  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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This package was debianized by Stephen Crowley crow@debian.org and is now maintained by Aurelien Jarno <aurel32@debian.org>.

It was downloaded from http://www.lm-sensors.org/

Authors:
Frodo Looijaard <frodol@dds.nl>
Merlin Hughes <merlin@merlin.org>
Mark M. Hoffman <mhoffman@lightlink.com>
Jean Delvare <khali@linux-fr.org>

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Protocol Buffers for Go with Gadgets

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.923 google-api-go-client 0.14.0

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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Dolan <dolan@lightstep.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <light@google.com>
Sarah Adams <shadams@google.com>
Scott Van Woudenberg <scottvw@gmail.com>
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package api

import (  "bytes"  "io/ioutil"  "os"  "path/filepath"  "regexp"
// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights reserved.)*
(//|#) Use of this source code is governed by a BSD-style
(//|#) license that can be found in the LICENSE file.

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
        if err != nil {
            return err
        }
        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }
        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
        if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
            t.Errorf("%v: license header not at the top", path)
        }
    })
}
} return nil }
})
if err != nil {
  t.Fatal(err)
}

1.924 x-crypto 0.0.0-20200414173820-0848c9571904

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1.925 strip-json-comments 2.0.1

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1.926 libxpm 3.5.12-1

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1.927 gjson 1.8.0
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1.928 leodido-go-urn 0.0.0-20181204092800-a67a23e1c1af
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AES in libhcrypto

rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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DES core in libhcrypto

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D3DES (V5.09) -

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

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


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1.933 set-blocking 2.0.0

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.937 afero 1.0.5

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1.938 walk-up-path 1.0.0

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1.939 python3-yaml 3.12 1build2

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1.942 libnlroute 3.2.29 0ubuntu3

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name
url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitemply"`
    URL  string `json:"url,omitemply"
}

1.945 expat 2.4.1
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1.946 test 3.2.5

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1.961 gogo-status 1.0.3

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1.962 libhttp-negotiate-perl 6.00-2

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=head1 NAME

HTTP::Negotiate - choose a variant to serve

=head1 SYNOPSIS

use HTTP::Negotiate qw(choose);

# ID QS Content-Type Encoding Char-Set Lang Size
$variants = [['var1', 1.000, 'text/html', undef, 'iso-8859-1', 'en', 3000],
             ['var2', 0.950, 'text/plain', 'gzip', 'us-ascii', 'no', 400],
             ['var3', 0.3, 'image/gif', undef, undef, 43555],
            ];

@preferred = choose($variants, $request_headers);
$the_one   = choose($variants);

=head1 DESCRIPTION

This module provides a complete implementation of the HTTP content negotiation algorithm specified in F<draft-ietf-http-v11-spec-00.ps> chapter 12. Content negotiation allows for the selection of a
preferred content representation based upon attributes of the negotiable variants and the value of the various Accept* header fields in the request.

The variants are ordered by preference by calling the function choose().

The first parameter is reference to an array of the variants to choose among. Each element in this array is an array with the values [$id, $qs, $content_type, $content_encoding, $charset, $content_language, $content_length] whose meanings are described below. The $content_encoding and $content_language can be either a single scalar value or an array reference if there are several values.

The second optional parameter is either a HTTP::Headers or a HTTP::Request object which is searched for "Accept*" headers. If this parameter is missing, then the accept specification is initialized from the CGI environment variables HTTP_ACCEPT, HTTP_ACCEPT_CHARSET, HTTP_ACCEPT_ENCODING and HTTP_ACCEPT_LANGUAGE.

In an array context, choose() returns a list of [variant identifier, calculated quality, size] tuples. The values are sorted by quality, highest quality first. If the calculated quality is the same for two variants, then they are sorted by size (smallest first). I<E.g.>:

```perl
(['var1', 1, 2000], ['var2', 0.3, 512], ['var3', 0.3, 1024]);
```

Note that also zero quality variants are included in the return list even if these should never be served to the client.

In a scalar context, it returns the identifier of the variant with the highest score or C<undef> if none have non-zero quality.

If the $HTTP::Negotiate::DEBUG variable is set to TRUE, then a lot of noise is generated on STDOUT during evaluation of choose().

=head1 VARIANTS

A variant is described by a list of the following values. If the attribute does not make sense or is unknown for a variant, then use C<undef> instead.

=over 3

=item identifier

This is a string that you use as the name for the variant. This
identifier for the preferred variants returned by choose().

=item qs

This is a number between 0.000 and 1.000 that describes the "source
quality". This is what F<draft-ietf-http-v11-spec-00.ps> says about this
value:

Source quality is measured by the content provider as representing the
amount of degradation from the original source. For example, a
picture in JPEG form would have a lower qs when translated to the XBM
format, and much lower qs when translated to an ASCII-art
representation. Note, however, that this is a function of the source
- an original piece of ASCII-art may degrade in quality if it is
captured in JPEG form. The qs values should be assigned to each
variant by the content provider; if no qs value has been assigned, the
default is generally "qs=1".

=item content-type

This is the media type of the variant. The media type does not
include a charset attribute, but might contain other parameters.
Examples are:

text/html
text/html;version=2.0
text/plain
image/gif
image/jpg

=item content-encoding

This is one or more content encodings that has been applied to the
variant. The content encoding is generally used as a modifier to the
content media type. The most common content encodings are:

gzip
compress

=item content-charset

This is the character set used when the variant contains text.
The charset value should generally be C<undef> or one of these:

us-ascii
iso-8859-1 ... iso-8859-9
iso-2022-jp
iso-2022-jp-2
This describes one or more languages that are used in the variant. Language is described like this in F<draft-ietf-http-v11-spec-00.ps>: A language is in this context a natural language spoken, written, or otherwise conveyed by human beings for communication of information to other human beings. Computer languages are explicitly excluded.

The language tags are defined by RFC 3066. Examples are:

- no               Norwegian
- en               International English
- en-US            US English
- en-cockney

This is the number of bytes used to represent the content.

The following Accept* headers can be used for describing content preferences in a request (This description is an edited extract from F<draft-ietf-http-v11-spec-00.ps>):

This header can be used to indicate a list of media ranges which are acceptable as a response to the request. The "*/" character is used to group media types into ranges, with "*/" indicating all media types and "type/*" indicating all subtypes of that type.

The parameter q is used to indicate the quality factor, which represents the user's preference for that range of media types. The parameter mbx gives the maximum acceptable size of the response content. The default values are: q=1 and mbx=infinity. If no Accept header is present, then the client accepts all media types with q=1.
For example:

Accept: audio/*;q=0.2;mbx=200000, audio/basic

would mean: "I prefer audio/basic (of any size), but send me any audio type if it is the best available after an 80% mark-down in quality and its size is less than 200000 bytes"

=item Accept-Charset

Used to indicate what character sets are acceptable for the response. The "us-ascii" character set is assumed to be acceptable for all user agents. If no Accept-Charset field is given, the default is that any charset is acceptable. Example:

Accept-Charset: iso-8859-1, unicode-1-1

=item Accept-Encoding

Restricts the Content-Encoding values which are acceptable in the response. If no Accept-Encoding field is present, the server may assume that the client will accept any content encoding. An empty Accept-Encoding means that no content encoding is acceptable. Example:

Accept-Encoding: compress, gzip

=item Accept-Language

This field is similar to Accept, but restricts the set of natural languages that are preferred in a response. Each language may be given an associated quality value which represents an estimate of the user's comprehension of that language. For example:

Accept-Language: no, en-gb;q=0.8, de;q=0.55

would mean: "I prefer Norwegian, but will accept British English (with 80% comprehension) or German (with 55% comprehension)."

=back

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=head1 AUTHOR

Gisle Aas <gisle@aas.no>

=cut

Found in path(s):
* /opt/cola/permits/1138400962_1614281903.53/0/libhttp-negotiate-perl-6-00-orig-1-tar-gz/HTTP-Negotiate-6.00/lib/HTTP/Negotiate.pm

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

=begin

NAME
HTTP::Negotiate - choose a variant to serve

SYNOPSIS
use HTTP::Negotiate qw(choose);

# ID       QS     Content-Type   Encoding Char-Set        Lang   Size
$variants = [
    ['var1', 1.000, 'text/html', undef, 'iso-8859-1', 'en', 3000],
    ['var2', 0.950, 'text/plain', 'gzip', 'us-ascii', 'no', 400],
    ['var3', 0.3, 'image/gif', undef, undef, undef, 43555],
];

@preferred = choose($variants, $request_headers);
$the_one   = choose($variants);

DESCRIPTION
This module provides a complete implementation of the HTTP content negotiation algorithm specified in draft-ietf-http-v11-spec-00.ps chapter 12. Content negotiation allows for the selection of a preferred content representation based upon attributes of the negotiable variants and the value of the various Accept* header fields in the request.

The variants are ordered by preference by calling the function choose().

The first parameter is reference to an array of the variants to choose among. Each element in this array is an array with the values [Sid, Sqs, $content_type, $content_encoding, $charset, $content_language, $content_length] whose meanings are described below. The $content_encoding and $content_language can be either a single scalar value or an array reference if there are several values.

The second optional parameter is either a HTTP::Headers or a HTTP::Request object which is searched for "Accept*" headers. If this
parameter is missing, then the accept specification is initialized from
the CGI environment variables HTTP_ACCEPT, HTTP_ACCEPT_CHARSET,
HTTP_ACCEPT_ENCODING and HTTP_ACCEPT_LANGUAGE.

In an array context, choose() returns a list of [variant identifier,
calculated quality, size] tuples. The values are sorted by quality,
highest quality first. If the calculated quality is the same for two
variants, then they are sorted by size (smallest first). *E.g.*:

```plaintext
(['var1', 1, 2000], ['var2', 0.3, 512], ['var3', 0.3, 1024]);
```

Note that also zero quality variants are included in the return list
even if these should never be served to the client.

In a scalar context, it returns the identifier of the variant with the
highest score or `undef' if none have non-zero quality.

If the $HTTP::Negotiate::DEBUG variable is set to TRUE, then a lot of
noise is generated on STDOUT during evaluation of choose().

VARIANTS

A variant is described by a list of the following values. If the
attribute does not make sense or is unknown for a variant, then use
`undef' instead.

**identifier**

This is a string that you use as the name for the variant. This
identifier for the preferred variants returned by choose().

**qs**

This is a number between 0.000 and 1.000 that describes the "source
quality". This is what draft-ietf-http-v11-spec-00.ps says about this
value:

Source quality is measured by the content provider as representing
the amount of degradation from the original source. For example, a
picture in JPEG form would have a lower qs when translated to the XBM
format, and much lower qs when translated to an ASCII-art
representation. Note, however, that this is a function of the source
- an original piece of ASCII-art may degrade in quality if it is
captured in JPEG form. The qs values should be assigned to each
variant by the content provider; if no qs value has been assigned,
the default is generally "qs=1".

**content-type**

This is the media type of the variant. The media type does not
include a charset attribute, but might contain other parameters.
Examples are:
text/html

content-encoding
This is one or more content encodings that has been applied to the
variant. The content encoding is generally used as a modifier to the
content media type. The most common content encodings are:

  gzip
  compress

content-charset
This is the character set used when the variant contains text. The
charset value should generally be 'undef' or one of these:

  us-ascii
  iso-8859-1 ... iso-8859-9
  iso-2022-jp
  iso-2022-jp-2
  iso-2022-kr
  unicode-1-1
  unicode-1-1-utf-7
  unicode-1-1-utf-8

content-language
This describes one or more languages that are used in the variant.
Language is described like this in draft-ietf-http-v11-spec-00.ps: A
language is in this context a natural language spoken, written, or
otherwise conveyed by human beings for communication of information
to other human beings. Computer languages are explicitly excluded.

The language tags are defined by RFC 3066. Examples are:

  no       Norwegian
  en       International English
  en-US    US English
  en-cockney

content-length
This is the number of bytes used to represent the content.

ACCEPT HEADERS
The following Accept* headers can be used for describing content
preferences in a request (This description is an edited extract from
draft-ietf-http-v11-spec-00.ps):
Accept

This header can be used to indicate a list of media ranges which are acceptable as a response to the request. The "*" character is used to group media types into ranges, with "*/*" indicating all media types and "type/*" indicating all subtypes of that type.

The parameter q is used to indicate the quality factor, which represents the user's preference for that range of media types. The parameter mbx gives the maximum acceptable size of the response content. The default values are: q=1 and mbx=infinity. If no Accept header is present, then the client accepts all media types with q=1.

For example:

Accept: audio/*;q=0.2;mbx=200000, audio/basic

would mean: "I prefer audio/basic (of any size), but send me any audio type if it is the best available after an 80% mark-down in quality and its size is less than 200000 bytes"

Accept-Charset

Used to indicate what character sets are acceptable for the response. The "us-ascii" character set is assumed to be acceptable for all user agents. If no Accept-Charset field is given, the default is that any charset is acceptable. Example:

Accept-Charset: iso-8859-1, unicode-1-1

Accept-Encoding

Restricts the Content-Encoding values which are acceptable in the response. If no Accept-Encoding field is present, the server may assume that the client will accept any content encoding. An empty Accept-Encoding means that no content encoding is acceptable. Example:

Accept-Encoding: compress, gzip

Accept-Language

This field is similar to Accept, but restricts the set of natural languages that are preferred in a response. Each language may be given an associated quality value which represents an estimate of the user's comprehension of that language. For example:

Accept-Language: no, en-gb;q=0.8, de;q=0.55

would mean: "I prefer Norwegian, but will accept British English (with 80% comprehension) or German (with 55% comprehension).
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AUTHOR
Gisle Aas <gisle@aas.no>

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license: perl

Found in path(s):
* /opt/cola/permits/1138400962_1614281903.53/0/libhttp-negotiate-perl-6-00-orig-1-tar-gz/HTTP-Negotiate-6.00/META.yml

1.963 python-setuptools 58.0.4
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1.972 jinja2 2.11.3
1.972.1 Available under license :

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import io
import re

from setuptools import find_packages
from setuptools import setup
with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    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=readme,
    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 :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.5",
        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
        "Programming Language :: Python :: 3.8",
        "Programming Language :: Python :: Implementation :: CPython",
        "Programming Language :: Python :: Implementation :: PyPy",
        "Topic :: Internet :: WWW/ HTTP :: Dynamic Content",
        "Topic :: Software Development :: Libraries :: Python Modules",
        "Topic :: Text Processing :: Markup :: HTML",
    ],
    packages=find_packages("src"),
    package_dir={"": "src"},
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
    install_requires=["MarkupSafe>=0.23"],
    extras_require=["i18n": ["Babel>=0.8"]],
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"],
}

Found in path(s):
* /opt/cola/permits/1238509835_1638972563.05/0/jinja2-2.11.3-tar-gz/Jinja2-2.11.3/setup.py
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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.3
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: Code, https://github.com/pallets/jinja
Description: 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`:

```text
$ pip install -U Jinja2
```


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

```jinja
{% 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 %}
```

Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH

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 :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
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.*, !=3.4.*
Description-Content-Type: text/x-rst
Provides-Extra: i18n

Found in path(s):
* /opt/cola/permits/1238509835_1638972563.05/0/jinja2-2.11.3-tar-gz/Jinja2-2.11.3/src/Jinja2.egg-info/PKG-INFO
* /opt/cola/permits/1238509835_1638972563.05/0/jinja2-2.11.3-tar-gz/Jinja2-2.11.3/PKG-INFO

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1.973 githubcomgoopenapiswag v0.19.5

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1.974 jackson-dataformat-yaml 2.11.2

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.975 combined-stream 1.0.8

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1.976 ini 1.3.8

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1.977 async-http 0.54.0

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# Async::HTTP

An asynchronous client and server implementation of HTTP/1.0, HTTP/1.1 and HTTP/2 including TLS. Support for streaming requests and responses. Built on top of [async](https://github.com/socketry/async) and [async-io](https://github.com/socketry/async-io). [falcon](https://github.com/socketry/falcon) provides a rack-compatible server.


## Installation

Add this line to your application's Gemfile:

```ruby
```
gem 'async-http'
```

And then execute:

$ bundle

Or install it yourself as:

$ gem install async-http

## Usage

### Post JSON data

Here is an example showing how to post a data structure as JSON to a remote resource:

```ruby
#!/usr/bin/env ruby
require 'json'
require 'async'
require 'async/http/internet'
data = {'life' => 42}
Async do

Async do

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require 'async/http/internet'
data = {'life' => 42}
Async do

Async do

require 'json'
```
# Make a new internet:
internet = Async::HTTP::Internet.new

# Prepare the request:
headers = [['accept', 'application/json']]  
body = [JSON.dump(data)]

# Issues a POST request:
response = internet.post("https://httpbin.org/anything", headers, body)

# Save the response body to a local file:
pp JSON.parse(response.read)
ensure
# The internet is closed for business:
internet.close
end

Consider using [async-rest](https://github.com/socketry/async-rest) instead.

### Multiple Requests

To issue multiple requests concurrently, you should use a barrier, e.g.

```ruby
#!/usr/bin/env ruby
#!/usr/bin/env ruby

require 'async'
require 'async/barrier'
require 'async/http/internet'

TOPICS = ['ruby', 'python', 'rust']

Async do
  internet = Async::HTTP::Internet.new
  barrier = Async::Barrier.new

  # Spawn an asynchronous task for each topic:
  TOPICS.each do |topic|
    barrier.async do
      response = internet.get "https://www.google.com/search?q=#{topic}");
      puts "Found #{topic} times."
    end
  end

  # Ensure we wait for all requests to complete before continuing:
  barrier.wait
ensure
```
#### Limiting Requests

If you need to limit the number of simultaneous requests, use a semaphore.

```ruby
#!/usr/bin/env ruby
require 'async'
require 'async/barrier'
require 'async/semaphore'
require 'async/http/internet'

TOPICS = "["ruby", "python", "rust"]

Async do
  internet = Async::HTTP::Internet.new
  barrier = Async::Barrier.new
  semaphore = Async::Semaphore.new(2, parent: barrier)
  # Spawn an asynchronous task for each topic:
  TOPICS.each do |topic|
    semaphore.async do
      response = internet.get "https://www.google.com/search?q=#{topic}"
      puts "Found #{topic}: #{response.read.scan(topic).size} times."
    end
  end
  # Ensure we wait for all requests to complete before continuing:
  barrier.wait
end
```

### Downloading a File

Here is an example showing how to download a file and save it to a local path:

```ruby
#!/usr/bin/env ruby
require 'async'
require 'async/http/internet'
```
Async do
# Make a new internet:
internet = Async::HTTP::Internet.new

# Issues a GET request to Google:
response = internet.get("https://www.google.com/search?q=kittens")

# Save the response body to a local file:
response.save("/tmp/search.html")
ensure
# The internet is closed for business:
internet.close
end
```

### Basic Client/Server

Here is a basic example of a client/server running in the same reactor:

``` ruby
#!/usr/bin/env ruby
require 'async'
require 'async/http/server'
require 'async/http/client'
require 'async/http/endpoint'
require 'async/http/protocol/response'

endpoint = Async::HTTP::Endpoint.parse('http://127.0.0.1:9294')

app = lambda do |request|
  Protocol::HTTP::Response[200, {}, 
    "Hello World"]
end

server = Async::HTTP::Server.new(app, endpoint)
client = Async::HTTP::Client.new(endpoint)

Async do [task]
  server_task = task.async do
    server.run
  end

  response = client.get("/")

  puts response.status
  puts response.read

  server_task.stop
```
### Advanced Verification

You can hook into SSL certificate verification to improve server verification.

```ruby
require 'async'
require 'async/http'

# These are generated from the certificate chain that the server presented.
trusted_fingerprints = {
  "dac9024f54d8f6df94935fb1732638ca6ad77e13" => true,
  "e6a3b45b062d509b33822828d196efe97d5956c6b" => true,
  "07d63f4c05a03f1c306f994fb8ebf57598719ea2" => true,
  "e8d994f4f20dc78dbff4e59d7da93900572bbf" => true,
}

Async do
  endpoint = Async::HTTP::Endpoint.parse("https://www.codeotaku.com/index")

  # This is a quick hack/POC:
  ssl_context = endpoint.ssl_context

  ssl_context.verify_callback = proc { |verified, store_context|
    certificate = store_context.current_cert
    fingerprint = OpenSSL::Digest::SHA1.new(certificate.to_der).to_s
    if trusted_fingerprints.include?(fingerprint)
      true
    else
      Async.logger.warn("Untrusted Certificate Fingerprint") { fingerprint }
    end
  end

  endpoint = endpoint.with(ssl_context: ssl_context)

  client = Async::HTTP::Client.new(endpoint)

  response = client.get(endpoint.path)

  pp response.status, response.headers.fields, response.read
end
```

### Timeouts
Here's a basic example with a timeout:

```ruby
#!/usr/bin/env ruby
require 'async/http/internet'

Async do |task|
  internet = Async::HTTP::Internet.new

  # Request will timeout after 2 seconds
  task.with_timeout(2) do
    response = internet.get "https://httpbin.org/delay/10"
  end
  rescue Async::TimeoutError
    puts "The request timed out"
  ensure
    internet&.close
  end

## Performance

On a 4-core 8-thread i7, running `ab` which uses discrete (non-keep-alive) connections:

```
$ ab -c 8 -t 10 http://127.0.0.1:9294/
This is ApacheBench, Version 2.3 <$Revision: 1757674 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking 127.0.0.1 (be patient)
Completed 5000 requests
Completed 10000 requests
Completed 15000 requests
Completed 20000 requests
Completed 25000 requests
Completed 30000 requests
Completed 35000 requests
Completed 40000 requests
Completed 45000 requests
Completed 50000 requests
Finished 50000 requests

Server Software:
Server Hostname: 127.0.0.1
Server Port: 9294
```
On a 4-core 8-thread i7, running `wrk`, which uses 8 keep-alive connections:

```
$ wrk -c 8 -d 10 -t 8 http://127.0.0.1:9294/
Running 10s test @ http://127.0.0.1:9294/
  8 threads and 8 connections
Thread Stats  Avg  Stddev  Max  +/- Stddev
  Latency   217.69us 0.99ms 23.21ms 97.39%
  Req/Sec          12.18k 1.58k 17.67k 83.21%
97,448 requests in 10.10s, 60.41MB read
Requests/sec: 96,485.00
Transfer/sec: 5.98MB
```

According to these results, the cost of handling connections is quite high, while general throughput seems pretty decent.
## Semantic Model

### Scheme

HTTP/1 has an implicit scheme determined by the kind of connection made to the server (either `http` or `https`), while HTTP/2 models this explicitly and the client indicates this in the request using the `:scheme` pseudo-header (typically `https`). To normalize this, `Async::HTTP::Client` and `Async::HTTP::Server` have a default scheme which is used if none is supplied.

### Version

HTTP/1 has an explicit version while HTTP/2 does not expose the version in any way.

### Reason

HTTP/1 responses contain a reason field which is largely irrelevant. HTTP/2 does not support this field.

## Contributing

1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (`git commit -am 'Add some feature'`)
4. Push to the branch (`git push origin my-new-feature`)
5. Create new Pull Request

## See Also

- [falcon](https://github.com/socketry/falcon) A rack compatible server built on top of `async-http`.
- [async-websocket](https://github.com/socketry/async-websocket) Asynchronous client and server websockets.
- [async-rest](https://github.com/socketry/async-rest) A RESTful resource layer built on top of `async-http`.

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* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/lib/async/http/protocol/http1/response.rb
* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/lib/async/http/protocol/http1/connection.rb
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* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/lib/async/http/protocol/http2/statistics_spec.rb
* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/lib/async/http/protocol/http2/endpoint.rb
* /opt/cola/permits/1152134092_1618097373.49/0/socketry-async-http-v0-54-0-0-g06d59a3-tar-gz/socketry-async-http-7594f07/lib/async/http/protocol/http2/output.rb
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 */

package minio

import (    "bytes"
// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
    XMLNS   string          `xml:"xmlns,attr,omitempty"`
    XMLName xml.Name        `xml:"LegalHold"
    Status  LegalHoldStatus `xml:"Status,omitempty"
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (  
    LegalHoldEnabled LegalHoldStatus = "ON"
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {  
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {  
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}
func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `\%v`", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }

    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }

    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }

    reqMetadata := requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
// Execute PUT Object Legal Hold.
deferreresponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != "" {
    }
    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
deferreresponse(resp)
    if err != nil {
        return nil, err
    }
}`
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}

lh := &objectLegalHold{}
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}

return &lh.Status, nil

---

1.992 jackson-annotations 2.11.1

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1.993 constantly 15.1.0-2.ph2

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1.994 githubcomimdariomergo v0.3.7

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import: ../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.995 serverengine 2.2.1-1.ph4
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1.997 jackson-dataformat-yaml 2.9.10

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1.1000 nss-wrapper 1.1.3-1

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1.1004 json-parse-even-better-errors 2.3.1

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1.1005 cdrkit 1.1.11-3ubuntu2

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Version 3.1, 31 March 2009

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(kernel, window system, and so on) of the specific operating system
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@end enumerate

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1.1010 python3-click 6.7-3

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name
    url: the url"

    assertSerializeJSON(t, license, licenseJSON)
assertParsesJSON(t, licenseJSON, license)
}
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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name, omitempty"
    URL  string `json:"url, omitempty"
}

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were written by Theodore T'so <tytso@mit.edu> and Remy Card 
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*/
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 */
-Unix SMB/CIFS implementation.
+trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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the facility, other than as an argument passed when the facility
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This option is useful when you wish to copy part of the code of
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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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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

From the original distribution:

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
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 is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".
This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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1.1020 ncurses 6.1-1ubuntu1.18.04

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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This package is used for testing builds of ncurses.

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1.1021 gojsonschema 1.1.0

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1.1029 automaxprocs 1.2.0

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**1.1030 python-stdlib-extensions 3.6.9-1~18.04**

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_dict.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_types.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_dict.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_types.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_types.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_map.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_map.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_dict.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_map.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_standarderror.py

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

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative (\| Alternative)*

Alternative: (Unit | NegatedUnit)+

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

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

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

Details: '<' Alternatives '>

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/PatternGrammar.txt

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```
file.write('License: %s
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 startPos: 1
endPos: 162

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Modules/_tkinter.c
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Modules/_tkinter.c

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_wininst.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/cygwinccompiler.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_msi.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/spawn.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/driver.py

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1.1038 libbfio 20170123-4

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### 1.1039 minipass 3.1.6

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1.1041 python-defaults 2.7.15~rc1-1

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

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

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

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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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dh_python2, pycompile, pyclean and debpython module:

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

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1.1042 azure-sdk-for-go 49.2.0+incompatible

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

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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------------------------------------------------------------------------------
1.1045 tabwriter v0.0.0-20181228230101-89fcab3d43de
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1.1046 curl 7.58.0 2ubuntu3.13
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3. Replacing some modules with code written from scratch (e.g. the

1.1047 python3-crypto 2.6.1-8ubuntu2

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Last updated: 2009-02-28

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1.1049 python27-botocore 1.23.24
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Argon2 reference source code package - reference C implementations

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1.1061 thanos 0.12.1-0.20200416112106-b391ca115ed8

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1.1062 csv 1.0.0

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1.1063 x-tools 0.0.0-20200115044656-831fdb1e1868

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1.1064 armon-go-metrics 1.1.9

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1.1065 console-setup 1.178ubuntu2.9

1.1066 kubernetes-klog 0.4.0
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1.1081 power-assert 1.1.3

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1.1082 x-crypto 0.0.0-20210513164829-c07d793c2f9a

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1.1083 tmux 2.6-3ubuntu0.2

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1.1086 spdx-correct 3.1.1
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1.1091 parse-conflict-json 2.0.1

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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Written by: Zoltan Herczeg
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Email domain: cam.ac.uk

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

[zlib]

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

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

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[edoc, syntax_tools]

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Upstream Authors:
Michiel Sikkes <michiel@eyesopened.nl>
Michael Vogt <michael.vogt@ubuntu.com>
Sebastian Heinlein <glatzor@ubuntu.com>
Jonathan Riddell <jriddell@ubuntu.com>

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org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1102 goprotobuf 1.3.3

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1.1108 cffi 1.14.6

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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

That's all there is to it!

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 %result_floats %result_converted %result_converted_errors
 %result_elements %result_directions_text);

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This is a copyright notice

";

";

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The node you are looking for is at <a href="Chapter.html#Copying-information">Copying information</a>.

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For copying information, see "Copying information". For the public domain reference, see "Public domain reference". 
Title anchor for the titlepage.
Titlepage footnote anchor for reference on the titlepage.

Jump to: &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &n...
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Jump to: A, F

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blockquote.smallquotation {font-size: smaller}
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pre.smallexample {font-size: smaller}
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Jump to: &nbsp; <a class="summary-letter" href="#Copying-and-indices_cp_letter-C">C</a>
<a class="summary-letter" href="#Copying-and-indices_cp_letter-P">P</a>
<a class="summary-letter" href="#Copying-and-indices_cp_letter-T">T</a>

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Footnotes:

Footnotes

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Index
The node you are looking for is at <a href="float_copying_fot.html#caption-copying-footnote-anchor">caption copying footnote anchor</a>.

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Version 3, 29 June 2007
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Appendix A Copying and indices

In the appendix, we print the indices and references.

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1.1112 protocol-http 0.21.0

1.1112.1 Available under license:

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# Protocol::HTTP

Provides abstractions for working with the HTTP protocol.
## Installation

Add this line to your application's Gemfile:

```ruby
gem 'protocol-http'
```

And then execute:

```
$ bundle
```

Or install it yourself as:

```
$ gem install protocol-http
```

## Usage

### Headers

```ruby
require 'protocol/http/headers'
headers = Protocol::HTTP::Headers.new
headers['Content-Type'] = "image/jpeg"
headers['content-type']
# => "image/jpeg"
```

### Reference

```ruby
require 'protocol/http/reference'
reference = Protocol::HTTP::Reference.new("/search", q: 'kittens')
reference.to_s
# => "/search?q=kittens"
```

### URL

```ruby
```
require 'protocol/http/url'

reference = Protocol::HTTP::Reference.parse("/search?q=kittens")

parameters = Protocol::HTTP::URL.decode(reference.query_string)
# => {"q"=>"kittens"}

```ruby
## Contributing

1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (`git commit -am 'Add some feature'`)
4. Push to the branch (`git push origin my-new-feature`)
5. Create new Pull Request

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* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/lib/protocol/http/response.rb
* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/spec/protocol/http/header/cache_control_spec.rb
* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/lib/protocol/http/url.rb
* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/lib/protocol/http/body/reader.rb
* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/lib/protocol/http/header/cookie.rb
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* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/spec/protocol/http/body/buffered_spec.rb
* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/spec/protocol/http/header/etags_spec.rb
* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/lib/protocol/http/middleware.rb
* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/lib/protocol/http/connection.rb
* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/lib/protocol/http/rewindable.rb
* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/lib/protocol/http/split.rb
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* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/spec/protocol/http/header/authorization_spec.rb
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* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/library/response.rb
* /opt/cola/permits/1152135460_1618097516.96/0/socketry-protocol-http-v0-21-0-0-g9b1c310-tar-gz/socketry-protocol-http-0336fb/library/url.rb

1.1113 x-oauth2 0.0.0-20200107190931-bf48bf16ab8d

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

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From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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

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1.1119 qs 6.7.0

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1.1122 go-playground-locales 0.12.1

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1.1123 tunnel-agent 0.6.0

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1.1124 smart-buffer 4.2.0

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1.1125 kube-openapi 0.0.0-20190816220812-743ec37842bf

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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `["name":"the name","url":"the url"]`
    const licenseYAML = "name: the name
      url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

1.1126 go-shutil 0.0.0-20140729215957-bcacb06feca
1.1126.1 Available under license:
    I guess Python’s? If that doesn’t apply then MIT. Have fun.

1.1127 golang-org-x-text v0.3.4
1.1127.1 Available under license:
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1.1128 x-sync 0.0.0-20190911185100-cd5d95a43a6e

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1.1129 benbjohnson-clock 0.0.0-20161215174838-7dc76406b6d3

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1.1131 mna-redisc 1.1.7

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1.1132 go-runtime 1.14.1

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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <spwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Alex Jin <toalexjin@gmail.com>
Alex Kohler <alexjohnkohler@gmail.com>
Alex Myasoedov <msoedov@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Tokarev <aleksator@gmail.com>
Alex Vaghin <crhyme@google.com>
Alex Zhirov <azhirov@google.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexd.ch>
Alexander F Rdseth <alexander.rodseth@appeartv.com>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Lourier <aml@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@google.com>
Alexander Rakocy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandreviau.net>
Alexandru Mooli <brtznr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalexand@google.com>
Alexey Borzenkov <dnaury@gmail.com>
Alexey Naidonov <alexy.naidyonov@gmail.com>
Alexey Neganov <neganovalexy@google.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexis Hildebrandt <surryhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@google.com>
Ali Rizvi-Santiago <arizvisa@gmail.com>
Aliaksandr Valialkin <valyafa@gmail.com>
Carrie Bynon <cbynon@gmail.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Callendrello <squeed@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <cnicutar@gmail.com>
Catalin Patulea <catalinp@google.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
Chad Rosier <mrosier.qdt@qualcommdatacenter.com>
ChaiShushan <chaishushan@gmail.com>
Changkun Ou <hi@changkun.us>
Channing Kimble-Brown <channing@golang.org>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <eldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Chauncy Cullitan <chauncyc@gmail.com>
Chen Zhihan <energiehund@gmail.com>
Cherry Zhang <cherryyz@gmail.com>
Chew Choon Keat <choonkeat@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjsones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris Marchesi <chris@vancleevertech.com>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrsmith@users.noreply.github.com>
Chris Stockton <chrissstocktonaz@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christian Muehlhaeuser <muesli@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christine Hansmann <cjhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Koch <chrisko@google.com>
Christopher Loesssl <loesssl+github@gmail.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christophere.redden@gmail.com>
Christopher Swenson <cswenson@google.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clément Chigot <clement.chigot@atos.net>
Clement Skau <clementska@gmail.com>
Clint J. Edwards <clint.j.edwards@gmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Arnott <colin@urandom.co.uk>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Nelson <colnelson@google.com>
Colin Rice <clr@google.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Conrado Gouvea <conrado@up.pt>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Corey Thomasson <ctom@lists.google.com>
Cosmos Nicolaou <cnicolau@google.com>
Costin Chirivasuta <ctin@google.com>
Craig Citro <craigcitro@google.com>
Cristian Staretu <cristian.staretu@gmail.com>
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>
Cyrill Schumacher <cyrill@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daisuke Suzuki <daisuzu@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <42@dmathieu.com>
Damien Neil <dneil@google.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgstyle.net>
Derek Parker <parkerderek86@gmail.com>
Derek Phan <derekphan94@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Dev Ojha <dojha12@gmail.com>
Dev Zhoujun <dev.zhoujun@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhaivat Pandit <dhaivatpandit@gmail.com>
Dhananjay Nakrani <dhananjayn@gmail.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
Dhrududdt Jadhav <dhrududdt.jadhav@gmail.com>
Di Xiao <dixiao@gmail.com>
Didier Spezia <didier.06@gmail.com>
Diego Siqueira <diego9889@gmail.com>
Dieter Plaetinck <dieter@raintank.io>
Dimitri Sokolyuk <sokolyuk@gmail.com>
Dimitri Tcaciuc <dtcaciuc@gmail.com>
Dina Garmash <dgrmsh@gmail.com>
Diogo Pinela <diogoid7400@gmail.com>
Dirk Gadsden <dirk@esherido.com>
Diwaker Gupta <diwakergupta@gmail.com>
Dmitri Goutnik <dgoutnik@gmail.com>
Dmitri Popov <operator@cv.dp-net.com>
Dmitri Shuralyov <dmitshur@golang.org> <dmitri@shuralyov.com>
Dmitriy Cherchenko <dcherchenko@gmail.com>
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>
Dmitriy Sheleenin <deemok@googlemail.com> <deemok@gmail.com>
Dmitriy Vyukov <dvyukov@gmail.com>
Dmitry Chestnykh <dchest@gmail.com>
Dmitry Doroginin <doroginin@gmail.com>
Dmitry Motl <dmitry.mottl@gmail.com>
Dmitry Neverov <dmitry.neverov@gmail.com>
Dmitry Savintsev <dsavints@gmail.com>
Dmitry Yakunin <nonamezeil@gmail.com>
Domas Tamaauskas <puerdomus@gmail.com>
Domen Ipavec <domen@ipavec.net>
Dominic Green <dominicgreen1@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Don Byington <don@dbyclington.com>
Donald Huang <don.hcd@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@pope.com>
Doug Fawley <dfawley@pope.com>
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Drew Flower <drewvanstone@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
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GitHub User @pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @pytimer (17105586) <dixin20101023@gmail.com>
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GitHub User @saiturunreddy (21041941) <saiturunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuahhh (1298735) <yuan415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiuilio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <ggp493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@gmail.com>
Greg Thelen <gthelen@gmail.com>
Greg Ward <greg@gerg.ca>
Grgoire Delattre <gregoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosy@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guillaume J. Charmes <guillaume@charmes.net>
Gntner Noack <gnoack@gmail.com>
Guobiao Mei <meiguobiao@gmail.com>
Guoliang Wang <siamwgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavofranco@gmail.com>
Ivan Sharavuev <shpiwan@gmail.com>
Ivan Trubach <mr.trubach@icloud.com>
Ivan Ukhover <ivan.ukhov@gmail.com>
Ivy Evans <ivy@ivyevans.net>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>
Jaap Aarts <jaap.aarts1@gmail.com>
Jack Britton <jackxbritton@gmail.com>
Jack Lindamood <jlindamo@justin.tv>
Jacob Baskin <jhbaskin@gmail.com>
Jacob Blain Christen <dweomer5@gmail.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jacob Walker <jacobwalker0814@gmail.com>
Jae Kwon <jae@tendermint.com>
Jake B <doogie1012@gmail.com>
Jakob Borg <jakob@nym.se>
Jakob Weisblat <jakobw@mit.edu>
Jakub ajka <jcajka@redhat.com>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
Jamal Carvalho <jamal.a.carvalho@gmail.com>
James Aguilar <jaguilar@gmail.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@gmail.com>
James Clarke <jrtc27@jrtc27.com>
James Cowgill <James.Cowgill@imgtec.com>
James Craig Burley <james-github@burleyarch.com>
James David Chalfant <james.chalfant@gmail.com>
James Eady <jmeady@gmail.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Hartig <fastest963@gmail.com>
James Lawrence <jlljatone@gmail.com>
James Meneghello <rawrz0r@gmail.com>
James Myers <jfmymers9@gmail.com>
James Neve <jamesoneve@gmail.com>
James Nugent <james@jen20.com>
James P. Cooper <jamespcooper@gmail.com>
James Robinson <jamesr.google.com> <jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
James Sweet <james.sweet88@gmail.com>
James Toy <nil@opensesame.st>
James Treanor <jtreamor3@gmail.com>
James Tucker <raggi.google.com>
James Whitehead <jnwwhiteh@gmail.com>
Jamie Beverly <jamie.r.beverly@gmail.com>
Jamie Gennis <jgennis@gmail.com> <jgennis@gmail.com>
Jamie Kerr <jkerr113@gmail.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ymkins@gmail.com>
Pawel Knap <pawelknap88@gmail.com>
Pawel Szczur <filemon@google.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Petar Maymounkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@google.com>
Peter Conerly <pconerly@gmail.com>
Peter Dotchev <dotchev@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@google.com>
Peter Hoyes <pahoyes@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@google.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pamorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Peter Surnyi <speter.go1@gmail.com>
Peter Szab <pts@google.com>
Peter Szilgyi <peterke@gmail.com>
Peter Teichman <pteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petr Jedin <petr.jediny@gmail.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <spkwarez@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephani <phst@google.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellowiers.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Agrawal <prashant.a.vjti@gmail.com>
Prashant Varanasi <prashant@prashanttv.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Pure White <wu.purewhite@gmail.com>
Qais Patankar <qaisip@gmail.com>
Qiuxuan Zhu <i1sh1022@gmail.com>
Quan Tran <qeed.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Radek Söhlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Raph Levien <raph@google.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Ravil Bikbulatov <weeellz12@gmail.com>
RaviTeja Pothana <ravi.tezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Raymond Kazlauskas <raima220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Rmy Oudompheng <oudomphe@phare.normalesup.org> <remyoudompheng@gmail.com>
Rens Rikkerink <lkkerens@users.noreply.github.com>
Rhys Hiltner <rhys@justin.tv>
Ricardo Padilha <ricardospadilha@gmail.com>
Ricardo Seriani <ricardo.seriani@gmail.com>
Richard Barnes <rlb@ipv.sx>
Richard Crowley <r@rcrowley.org>
Richard Dingwall <rdingwall@gmail.com>
Richard Eric Gavaletz <gavaletz@gmail.com>
Richard Gibson <richard.gibson@gmail.com>
Richard Miller <miller.research@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rlh@golang.org>
Rick Sayre <whorfin@gmail.com>
Rijnard van Tonder <rvantonder@gmail.com>
Riku Voipio <riku.voipio@linaro.org>
Risto Jaakko Saarelma <rsaarelm@gmail.com>
Rob Earhart <earhart@google.com>
Rob Findley <rfindley@google.com>
Rob Norman <rob.norman@infinitycloud.com>
Rob Phoenix <robrobphoenix.com>
Rob Pike <r@golang.org>
Robert Ayrapetyan <robert.ayrapetyan@gmail.com>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
Robert Dinu <r@varp.se>
Robert Figueiredo <robfig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Ianucci <iannucci@gmail.com>
Robert Obroky <robrky@gmail.com>
Robert Sesek <rsesek@gmail.com>
Robert Snedegar <roberts@gmail.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert van Gent <rvangent@gmail.com>
Robert-Andr Mauchin <zebob.m@gmail.com>
Roberto Clapis <robcmap8@gmail.com>
Roberto Selbach <roberto@selbach.ca>
Robin Eklind <r.eklind.87@gmail.com>
Robin Zhong <robin@robinzhong.co>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Rodolfo Rodriguez <rodolfobgibson@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>
Roger Pau Monn <royger@gmail.com>
Roger Peppe <rogepepe@gmail.com>
Rohan Challa <rohan@golang.org>
Rohan Verma <rohanverma2004@gmail.com>
Roland Illig <roland.illig@gmx.de>
Roland Shoemaker <rolandshoemaker@gmail.com>
Romain Baugue <romain.baugue@elwinar.com>
Roman Budnikov <romanyx90@yandex.ru>
Roman Kollr <roman.kollar.0@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <tamin01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fnlc.
Troels Thomsen <troels@thomsen.io>
Trung Nguyen <trung.n.k@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuo@gmail.com>
Tyler Bui-Palsulich <tpalsulich@gmail.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Udalov Max <re.udalov@gmail.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangjiparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <uniixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Valentin Vidić <vvidic@valentin-vidic.from.hr>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturaev <vpearutop@gmail.com>
Victor Chudnovsky <vchudnov@o&lecom>
Victor Vrančan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@gmail.com>
Ville Skytt <ville.skytta@iki.fi>
Vincent Ambo <tazjin@goolemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vini Rajashekhara <vinutheraj@gmail.com>
Vish Subramanian <vish@o&lecom>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswarar R <r.visweswarar@gmail.com>
Vitaly Zdanevich <zdanevich.vitaly@ya.ru>
Vitor De Mario <vitordemario@gmail.com>
Vivek Sekhar <vsekhar@o&lecom>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Evgrafov <evgrafov.vladimir@gmail.com>
Vladimir Kovpak <cn007b@gmail.com>
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# Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolf@gmail.com>
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   (For example, a function in a library to compute square roots has...
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1.1160 http-parser-rb 0.6.0

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1.1161 wheel 0.30.0

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# Please keep the list sorted.

Alain Vongsouvanhulainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Nick Craig-Wood <nickcw@gmail.com>
Scott Van Woudenberg <scottvw@google.com>
Takashi Matsuo <tmatsuo@google.com>

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Alex A. Skinner
Andrew Tunnell-Jones
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Dave Cheney
Dusty Wilson
Marek Majkowski
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Omri Bahumi
Alex Sergeyev

Contributors
==========
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samuel A. Falvo II</td>
<td><a href="mailto:sam.falvo@rackspace.com">sam.falvo@rackspace.com</a></td>
</tr>
<tr>
<td>Glen Campbell</td>
<td><a href="mailto:glen.campbell@rackspace.com">glen.campbell@rackspace.com</a></td>
</tr>
<tr>
<td>Jesse Noller</td>
<td><a href="mailto:jesse.noller@rackspace.com">jesse.noller@rackspace.com</a></td>
</tr>
<tr>
<td>Jon Perritt</td>
<td><a href="mailto:jon.perritt@rackspace.com">jon.perritt@rackspace.com</a></td>
</tr>
<tr>
<td>Ash Wilson</td>
<td><a href="mailto:ash.wilson@rackspace.com">ash.wilson@rackspace.com</a></td>
</tr>
<tr>
<td>Jamie Hannaford</td>
<td><a href="mailto:jamie.hannaford@rackspace.com">jamie.hannaford@rackspace.com</a></td>
</tr>
<tr>
<td>Don Schenck</td>
<td><a href="mailto:don.schenck@rackspace.com">don.schenck@rackspace.com</a>&gt;</td>
</tr>
<tr>
<td>Joe Topjian</td>
<td><a href="mailto:joe@topjian.net">joe@topjian.net</a></td>
</tr>
</tbody>
</table>

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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprintf(w, `[
            {
                "key": "mit",
                "name": "MIT",
                "url": "https://api.github.com/licenses/mit"
            }
        ]
        `)
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{
        License{
            Key:  String("mit"),
            Name: String("MIT"),
            URL:  String("https://api.github.com/licenses/mit"),
        }
    }
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()
mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprintf(w, `("key":"mit","name":"MIT")`) 
})

license, _, err := client.Licenses.Get("mit")
if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
}

want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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import: ../../fossene/db/schema/thing.yml
fields:
  site: string
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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.

type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`
    Name *string `json:"name",omitempty`
    URL  *string `json:"url",omitempty`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty`
    Description    *string   `json:"description",omitempty`
    Category       *string   `json:"category",omitempty`
    Implementation *string   `json:"implementation",omitempty`
    Required       *[]string `json:"required",omitempty`
    Permitted      *[]string `json:"permitted",omitempty`
    Forbidden      *[]string `json:"forbidden",omitempty`
    Body           *string   `json:"body",omitempty`
}

func (l License) String() string {

}
return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
req, err := s.client.NewRequest("GET", "licenses", nil)
if err != nil {
return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
return nil, resp, err
}

return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
u := fmt.Sprintf("licenses/%s", licenseName)

req, err := s.client.NewRequest("GET", u, nil)
if err != nil {
return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

license := new(License)
resp, err := s.client.Do(req, license)
if err != nil {
return nil, resp, err
}

return license, resp, err
}

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# Please keep the list sorted.

Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Nick Craig-Wood <nickcw@gmail.com>
Scott Van Woudenberg <scottvw@google.com>
Takashi Matsuo <tmatsuo@google.com>
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Alex A. Skinner
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Contributors
============

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samuel A. Falvo II</td>
<td><a href="mailto:sam.falvo@rackspace.com">sam.falvo@rackspace.com</a></td>
</tr>
<tr>
<td>Glen Campbell</td>
<td><a href="mailto:glen.campbell@rackspace.com">glen.campbell@rackspace.com</a></td>
</tr>
<tr>
<td>Jesse Noller</td>
<td><a href="mailto:jesse.noller@rackspace.com">jesse.noller@rackspace.com</a></td>
</tr>
<tr>
<td>Jon Perritt</td>
<td><a href="mailto:jon.perritt@rackspace.com">jon.perritt@rackspace.com</a></td>
</tr>
<tr>
<td>Ash Wilson</td>
<td><a href="mailto:ash.wilson@rackspace.com">ash.wilson@rackspace.com</a></td>
</tr>
<tr>
<td>Jamie Hannaford</td>
<td><a href="mailto:jamie.hannaford@rackspace.com">jamie.hannaford@rackspace.com</a></td>
</tr>
<tr>
<td>Don Schenck</td>
<td><a href="mailto:don.schenck@rackspace.com">don.schenck@rackspace.com</a></td>
</tr>
<tr>
<td>Joe Topjian</td>
<td><a href="mailto:joe@topjian.net">joe@topjian.net</a></td>
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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[
{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}
]`)
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{
        License{
            Key:  String("mit"),
            Name: String("MIT"),
            URL:  String("https://api.github.com/licenses/mit"),
        }
    }
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}
func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `(key":"mit","name":"MIT")`)})

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty"`
    Name *string `json:"name",omitempty"`
    URL  *string `json:"url",omitempty"`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty"
    Description    *string   `json:"description",omitempty"
    Category       *string   `json:"category",omitempty"
    Implementation *string   `json:"implementation",omitempty"
    Required       *[]string `json:"required",omitempty"
    Permitted      *[]string `json:"permitted",omitempty"
    Forbidden      *[]string `json:"forbidden",omitempty"
    Body           *string   `json:"body",omitempty"
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    //
```go
// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
    return nil, resp, err
}
return *licenses, resp, err

// Fetch extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}
```

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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 webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.

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1.1178 golang-org-x-sys v0.0.0-20190916202348-b4ddaad3f8a3

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1.1194 meld 1.0.2

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Contributors
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- Chris McDonough, 2005-12-18
- Tres Seaver, 2006-02-09
- Jorge Puente Sarrn, 2012-11-27

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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
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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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1.1197 k8s-io-client-go v0.17.2

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@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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D3DES (V5.09) -

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


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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
  jar/javassist/bytecode/analysis/Subroutine.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/MethodCall.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ClassFileWriter.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CannotCompileException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformReadField.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/Callback.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/Modifier.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/runtime/Inner.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/StubGenerator.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtClass.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/SoftValueHashMap.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtConstructor.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/Opcode.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/LocalVariableTypeAttribute.java

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*
* Found in path(s):
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/util/HotSwapAgent.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/ClassMap.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/bytecode/ConstantAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/util/proxy/SerializedProxy.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* jar/javassist/bytecode/annotation/EnumMemberValue.java
*/

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1.1235 xi2-xz 0.0.0-20171230120015-48954b6210f8

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1.1236 go-runtime 1.17.3

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#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.

# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Jensen <jensen.aaro@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Sheah <aaronsheah@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Mitha <adam.mitha@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Adel Rodriguez <adel.rodriguez@leftfieldlabs.com>
Adin Scannell <ascannell@google.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <sphpproger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed W. Mones <oneofone@gmail.com>
Ahmet Aktrak <aakturk000@gmail.com>
Ahmet Alp Balkan <ahmetb@google.com>
Ahmet Soormally <ahmet@mangomm.co.uk>
Ahmy Yulrizka <yulrizka@gmail.com>
Ahsun Ahmed <ahmed.ahsun@gmail.com>
Aidan Coyle <packrat386@gmail.com>
Aiden Scandella <ai@uber.com>
Ainar Garipov <gugl.zadolbal@gmail.com>
Aishraj Dahal <aishraj@users.noreply.github.com>
Ajanthan Balachandran <balaajanthan@gmail.com>
Akhil Indurti <ainindurti@gmail.com>
Akihiro Suda <suda.kyoto@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Al Cutter <al@google.com>
Alan Braithwaite <alan@ipaddr.org>
Alan Donovan <adonovan@google.com>
Alan Shreve <alan@inconshreveable.com>
Albert Nigmatzianov <albertnigma@gmail.com>
Albert Strasheim <fullung@gmail.com>
Albert Teoh <albert.teoh@gmail.com>
Albert Yu <yuikying@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garciahirro@gmail.com>
Alec Benzer <alec.benzer@gmail.com>
Alejandro Garca Montoro <alejandro.gargiamontoro@gmail.com>
Aleksa Sarai <cyphar@cyphar.com>
Aleksandar Dezelin <dezelin@gmail.com>
Aleksandr Lukinykh <a.lukinykh@xsolla.com>
Aleksandr Razumov <ar@cydev.ru>
Alekseev Artem <a.artem060@gmail.com>
Aleksei Tirman <aleksei.tirman@jetbrains.com>
Alessandro Arzilli <alessandro.arzilli@gmail.com>
Alessandro Baffa <alessandro.baffa@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alex.brainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Browne <stephenalexbrowne@gmail.com>
Alex Buchanan <buchanae@gmail.com>
Alex Carol <alex.carol.c@gmail.com>
Alex Gaynor <alex@alloy.us>
Alex Harford <alex.harford@saucelabs.com>
Alex Hays <alex.hays@leftfieldlabs.com>
Alex Jin <toalexjin@gmail.com>
Alex Kohler <alejandro.kohler@gmail.com>
Alex Myasoedov <moedov@gmail.com>
Alex Opie <amtopie@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Tokarev <aleksator@gmail.com>
Alex Vaghin <crhyme@google.com>
Alex Zhiro <azhiro@google.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alex.ch>
Alexander F Rdseth <alexander.rodseth@appeartv.com>
Alexander Greim <alexxx@iltempo.de>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Klauer <Alexander.Klauer@googlemail.com>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Lourer <saml@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Nohe <alex.nohe427@gmail.com>
Alexander Orlov <alexander.orlov@loxl.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@google.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillian <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesario <alexandre.cesario@gmail.com>
Bobby Powers <bobbypowers@gmail.com>
Boqin Qin <bobbq Qin@gmail.com>
Boris Nagaev <nagaev@google.com>
Borja Clemente <borja.clemente@gmail.com>
Boshi Lian <bolian@microsoft.com>
Brad Burch <brad.burch@gmail.com>
Brad Erickson <bderickson@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <rbjones@google.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Bradford Lamson-Scribner <brad.lamson@gmail.com>
Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Branden J. Brown <zephyrtronium@gmail.com>
Brandon Bennett <bbennett@fb.com>
Brandon Gilmore <varz@google.com>
Brandon Philips <brandond@ifup.org>
Brandon Ryan <bryan19@gmail.com>
Brave Cow <rsw715@gmail.com>
Brayden Cloud <bcl cloud@gmail.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O’Dea <bod@golang.org>
Brett Cannon <bcannon@gmail.com>
Brett Merrill <brett.j.merrill94@gmail.com>
Brian Dellisanti <briandellisantti@gmail.com>
Brian Downs <brian.downs@gmail.com>
Brian Falk <falk@logicparty.org>
Brian G. Merrell <bmerrell@gmail.com>
Brian Gitonga Marete <marete@toshnix.com> <bgmarete@gmail.com> <bgm@gmail.com>
Brian Kennedy <bt kennedy@gmail.com>
Brian Kessler <brian.m.kessler@gmail.com>
Brian Ketelsen <bketelsen@gmail.com>
Brian Slesinsky <skybrian@gmail.com>
Brian Smith <ohohvi@gmail.com>
Brian Starke <brian.starke@gmail.com>
Bryan Alexander <Kozical@msn.com>
Bryan Boreham <bjboreham@gmail.com>
Bryan C. Mills <bcmills@google.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Bryan Ford <bryanosaurus@gmail.com>
Bryan Heden <b.heden@gmail.com>
Bulat Gaifullin <gaifullinbf@gmail.com>
Burak Guven <bguven@gmail.com>
Caine Tighe <arctanofyourface@gmail.com>
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>
Caleb Martinez <accounts@calebmartinez.com>
Caleb Spare <cespare@gmail.com>
Carl Chatfield <carlchatfield@gmail.com>
Carl Henrik Lunde <chlunde@ifi.uio.no>
Carl Jackson <carl@stripe.com>
Carl Johnson <me@carlmjohnson.net>
Carl Mastrangelo <notcarl@google.com>
Carl Menezes <carleeto@gmail.com>
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>
Carlisla Campos <carlisia@grokkingtech.io>
Carlo Alberto Ferraris <cafxx@strayorange.com>
Carlos Alexandre Becker <caarlos0@gmail.com>
Carlos Amedee <carlos@golang.org>
Carlos Castillo <cookie9@gmail.com>
Carlos Cirello <uldericofilho@gmail.com>
Carlos Eduardo <me@carlosedp.com>
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>
Carlos Iriarte <ciriarte@gmail.com>
Carlos Souza <carloshsouza@gmail.com>
Carolyn Van Slyck <me@carolynvanslyck.com>
Carrie Bynon <cbynon@gmail.com>
Carson Hoffman <c@rsonhoffman.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Callendrello <squeed@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <cnicutar@gmail.com>
Catalin Patulea <catalinp@gmail.com>
Cathal O'Callaghan <cathalsocallaghan@gmail.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
Chad Rosier <mrosier.qdt@qualcommdatacenter.com>
Chaishushan <chaishushan@gmail.com>
Changkun Ou <hi@changkun.us>
Channing Kimble-Brown <channing@golang.org>
Chao Xu <xuchao@google.com>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <eldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Charlie Moog <moogcharlie@gmail.com>
Charlotte Brandhorst-Satzkorn <catzkorn@gmail.com>
Chauncy Cullitan <chauncyc@gmail.com>
Chen Zhidong <njutzcd@gmail.com>
Chen Zhihan <energiehund@gmail.com>
Cherry Mui <cherryyz@gmail.com>
Green Lightning <GreenLightning.git@googlemail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezd@gmail.com>
Greg Thelen <gthelen@gmail.com>
Greg Ward <greg@gerg.ca>
Grgoire Delattre <gregoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Gregory Petrosyan <gregory.petrosyan@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustos@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guilherme Souza <32180229+gqgs@users.noreply.github.com>
Guillaume J. Charmes <guillaume.charmes.net>
Guillaume Sottas <guilaumesottas@gmail.com>
Gnther Noack <gnoack@gmail.com>
Guobiao Mei <meiguobiao@gmail.com>
Guodong Li <guodongli@gmail.com>
Guoliang Wang <iamwgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavorfranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Tregueri <gwen.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@gmail.com>
HAMANO Tsukasa <hamano@osstech.co.jp>
Han-Wen Nienhuys <hanwen@gmail.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hallaazzang@gmail.com>
Hanlin He <hanling.he@gmail.com>
Hanlin Shi <shihanlin9@gmail.com>
Haoran Luo <haoran.luo@chaitin.com>
Haosdent Huang <haosdent@gmail.com>
Harald Nordgren <haraldsnordgren@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Haritharan Srinath <srinathth@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <morenol149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hasan Ozgan <hasan@ozgan.net>
Hasit Bhatt <hasit.p.bhatt@gmail.com>
Hauke Lffler <hloeffler@users.noreply.github.com>
Hvard Haugen <havard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jrojohnson@google.com>
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeff Widman <jeff@jeffwidman.com>
Jeffrey H <jeffreyh192@gmail.com>
Jelte Fennema <github-tech@jeltef.nl>
Jens Frederich <jf Frederich@gmail.com>
Jeremiah Harmsen <jeremiah@google.com>
Jeremy Banks < jeremy.ca>
Jeremy Canady < jcanady@gmail.com>
Jeremy Faller <jeremy@golang.org>
Jeremy Jackins <jeremyjackins@gmail.com>
Jeremy Jay <jeremy@pbnjay.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jero Bado <tokidokitalkyou@gmail.com>
Jeroen Bobbeldijk <jrobob92@gmail.com>
Jeroen Simonetti <jeroen@simonetti.nl>
Jrme Doucet <jerdc@gmail.com>
Jerrin Shaji George <jerrinsg@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jesse Szwedko <jesse.szwedko@gmail.com>
Jess Espino <jespinog@gmail.com>
Jia Zhan <jzhan@uber.com>
Jiacai Liu <jiacai2050@gmail.com>
Jiahao Lu <lujiuh@gmail.com>
Jianing Yu <jnyu@google.com>
Jianqiao Li <jianqiaoli@google.com>
Jiayu Yi <yijiaju@gmail.com>
Jie Ma <jenius@outlook.com>
Jihyun Yu <yjh0502@gmail.com>
Jim Cote <jfj cote87@gmail.com>
Jim Kingdon <jim@bolt.me>
Jim McGrath <jimme2@gmail.com>
Jim Minter <jminter@redhat.com>
Jimmy Frasche <soapboxcicero@gmail.com>
Jimmy Zelinskie <jimmyzelinskie@gmail.com>
Jin-wook Jeong <jeweljar@hanmail.net>
Jingcheng Zhang <diogin@gmail.com>
Jingguo Yao<yaojiongguo@gmail.com>
Jingnan Si <jingnan si@gmail.com>
Jinkun Zhang <franksnolf@gmail.com>
Jiong Du <londevil@gmail.com>
Jirka Dank <dnk@mail.muni.cz>
Jiulong Wang <jiulongw@gmail.com>
Joakim Sernbrant <serbaut@gmail.com>
Joe Bowbeer <joe.bowbeer@gmail.com>
Jon Johnson <jonjohnson@google.com>
Jonas Bernoulli <jonas@bernoun.li>
Jonathan Albrecht <jonathan.albrecht@ibm.com>
Jonathan Allie <jonallie@google.com>
Jonathan Amsterdam <jba@google.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.githubusercontent.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhseu@gmail.com>
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>
Jonathan Nieder <jm@google.com>
Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@gmail.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Swinney <jswinney@amazon.com>
Jonathan Wills <runningwild@gmail.com>
Jonathon Lacher <jonathon.lacher@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joons Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>
Jordan Christiansen <xordspar0@gmail.com>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Liggitt <liggitt@gmail.com>
Jordan Rhee <jordanrh@microsoft.com>
Jordan Rupprecht <rupprecht@gmail.com>
Jordi Martin <jordimartin@gmail.com>
Jorge Araya <jorgejavieran@yahoo.com.mx>
Jorge L. Fatta <jorge.fatta@auth0.com>
Jos Visser <josv@gmail.com>
Josa Gesell <josa@gesell.me>
Jose Luis Vzquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jcb@gmail.com>
Joseph Holsten <joseph@josephholsten.com>
Joseph Morag <sefim96@gmail.com>
Josh Baum <joshbaum@gmail.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@gmail.com>
Josh Holland <jrhl@joshh.co.uk>
Josh Rickmar <jrick@companyzero.com>
Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Bezaleel Abednego <joshua.bezaleel@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jcjoshuachase@gmail.com>
Joshua Crowgey <jcrowgey@uw.edu>
Joshua Harshman <joshgreyhat@gmail.com>
Joshua M. Clulow <josh.clulow@joyent.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jp@jpsugar@gmail.com>
JT Olds <jtoolds@xnet5.com>
JT Olio <hello@jtolio.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebpereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <j@github@digineo.de>
Julian Pastarmov <pastarmovj@gmail.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julian Tibble <julian.tibble@gmail.com>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kauffmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julien Tant <julien@crafftyx.fr>
Julio Montes <julio.montes@intel.com>
Jun Zhang <jim.zoumo@gmail.com>
Junchen Li <junchen.li@arm.com>
Junda Liu <junda@celer.network>
Jungho Ahn <jahn@google.com>
Junya Hayashi <ledmonster@gmail.com>
Juraj Sukop <sukop@users.noreply.github.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <jgracenin@gmail.com>
Justin Li <git@justinli.net>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justyntemme@gmail.com>
Kai Backman <kai@b@b@golang.org>
Kai Dong <dokia2357@gmail.com>
Kai Lke <kai@kinvolk.io>
Kai Truyenmiller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kalman Bekesi <kalmanb@google.com>
Kamal Aboul-Hosn <aboulhosn@google.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Luca Spiller <luca@stackednotion.com>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@google.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Rieffolo <luigi.rieffolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <quinguu@gmail.com>
Luke Granger-Brown <git@lukedb.com>
Luke Shumaker <lukesbhu@datawire.io>
Luke Young <bored-engineer@users.noreply.github.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylefFranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@gmail.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Mahdi Hosseini Moghaddam <seyed.mahdi.hosseini.moghaddam@ibm.com>
Maia Lee <maia.lee@leftfieldlabs.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishsmail@gmail.com>
Manlio Perillo <manlio.perillo@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@gmail.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanmiquel <marcsanmiquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <ainty.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wake <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Masaya Watanabe <sfbgwm30@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulyas <mgulyas86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapinski <czapkofan@gmail.com>
Matheus Alcantara <matheusssily97@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <ne@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Masurka <masurka@google.com>
Matt Pearring <broskies@google.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsey <mdempsky@google.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthias Frei <matthias.frei@inf.ethz.ch>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Mattias Appelgren <mattias@appelgren.se>
Mauricio Alvarado <mauricio.alvarado@leftfieldlabs.com>
Max Drosdo.www <g1ran1q@gmail.com>
Max Riveiro <kavul3@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenik <maxsem.wiki@gmail.com>
Max Ushakov <ushmax@gmail.com>
Maxim Eryomenko <moeryomenko@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Pugachev <pugachev.mm@gmail.com>
Maxim Ushakov <ushakov@google.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Mehrad Sadeghi <2012.linkinpark@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com> <mzh@golangcn.org>
Mhd Sulhan <m.shulhan@gmail.com>
Mia Zhu <CrystalZhu1025getu@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knyszek <mknyszek@google.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Cook <code@mdcook.net>
Michael Darakananda <pongad@google.com>
Michael Dorner <mail@michaeldorner.de>
Michael Edwards <medwards@walledcity.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Ellis <micellis@justin.tv>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Fromberger <michael.j.fromberger@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirheg.leighcim@gmail.com>
Michael Henderson <mdhender@users.noreply.github.com>
Michael Hendricks <michael@ndrix.org>
Michael Hoisie <hoisie@gmail.com>
Wei Fu <fhfuwei@163.com>
Wei Guangjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Wei Xikai <xykwei@gmail.com>
Weichao Tang <tevic.tt@gmail.com>
Weixie Cui <cuiweixie@gmail.com> <523516579@qq.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
Wenlei (Frank) He <wlhe@gmail.com>
Wenzel Lowe <lowewenzel@gmail.com>
Wil Selwood <wselwood@gmail.com>
Wilfried Teiken <wteiken@gmail.com>
Will Beason <willbeason@gmail.com>
Will Chan <willchan@gmail.com>
Will Faught <will.faught@gmail.com>
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>
Will Norris <willnorris@gmail.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Chang <mr.williamchang@gmail.com>
William Josephson <wjosephson@gmail.com>
William Langford <wlangford@gmail.com>
William Orr <will@worbase.com> <ay1244@gmail.com>
William Poussier <william.poussier@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xry23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xiangdong Ji <xiangdong.ji@arm.com>
Xiaodong Liu <teaofmoli@gmail.com>
Xing Gao <18340825824@163.com>
Xing Xing <mikespook@gmail.com>
Xingqiang Bai <bxq2011hust@qq.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicealias.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzts@desire.sh>
Yan Zou <yzou@gmail.com>
Yang Hau <vulxj08j8@gmail.com>
Yang Tian <linuxty@gmail.com>
Yann Hodique <yhodique@gmail.com>
Yann Kerherv <yann.kerherve@gmail.com>
Yann Salan <yannsalaun1@gmail.com>
Yannic Bonenberger <contact@yannic-bonenberger.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@google.com>
Yaroslav Vorobiov <yar.vorobiov@gmail.com>
Yasha Bubnov <girokompass@gmail.com>
Yasser Abdolmaleki <yasser@yasser.ca>
Yasuhiro Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yasutaka Shinzaki <shinzaki@yasu26.tech>
Yasuyuki Oka <yasuyk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <ylh@pdx.edu>
Yeseudeep Mangalapilly <yesudeep@google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yohei Takeda <yo.tak0812@gmail.com>
Yongjian Xu <i3dmaster@gmail.com>
Yorman Arias <cixtords@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Youfu Zhang <zhangyoufu@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yu, Li-Yu <afg984@gmail.com>
Yuichi Kishimoto <yk2220s@gmail.com>
Yuichi Nishiwaki <yuichi.nishiwaki@gmail.com>
Yuji Yaginuma <yuji.yaginuma@gmail.com>
Yuki Ito <mnrn0110y@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yugui Sonoda <yugui@google.com>
Yukihiro Nishinaka <6elpinal@gmail.com>
YunQiang Su <syq@debian.org>
Yury Smolsky <yury@smolsky.by>
Yusuke Kageiwa <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zack Bintliff <zbintlff@gmail.com>
Zack Gershman <zachgersh@gmail.com>
Zack Hoffman <zrhoffman@apache.org>
Zach Jones <zachj1@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Gershman <zgershman@pivotal.io>
Zak <zrjknill@gmail.com>
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Zev Goldstein <zev.goldstein@gmail.com>
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1.1242 prometheus-client 0.2.0

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1.1243 go-rootcerts 1.0.1

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Async is a composable asynchronous I/O framework for Ruby based on [nio4r](https://github.com/socketry/nio4r) and [timers](https://github.com/socketry/timers).

> "Lately I’ve been looking into `async`, as one of my projects – [tus-ruby-server](https://github.com/janko/tus-ruby-server) – would really benefit from non-blocking I/O. It's really beautifully designed." *– [janko](https://github.com/janko)*

## Features

- Scalable event-driven I/O for Ruby. Thousands of clients per process!:
- Light weight fiber-based concurrency. No need for callbacks!:
- Multi-thread/process containers for parallelism.
- Growing eco-system of event-driven components.

## Usage

Please see the [project documentation](https://socketry.github.io/async).

## Contributing

We welcome contributions to this project.

1. Fork it.
2. Create your feature branch (`git checkout -b my-new-feature`).
3. Commit your changes (`git commit -am 'Add some feature'`).
4. Push to the branch (`git push origin my-new-feature`).
5. Create new Pull Request.

## See Also
- [async-websocket](https://github.com/socketry/async-websocket) — Asynchronous client and server websockets.
- [async-dns](https://github.com/socketry/async-dns) — Asynchronous DNS resolver and server.
- [async-rspec](https://github.com/socketry/async-rspec) — Shared contexts for running async specs.

### Projects Using Async

- [ciri](https://github.com/ciri-ethereum/ciri) — An Ethereum implementation written in Ruby.
- [falcon](https://github.com/socketry/falcon) — A rack compatible server built on top of `async-http`.
- [rubydns](https://github.com/ioquatix/rubydns) — A easy to use Ruby DNS server.
- [slack-ruby-bot](https://github.com/slack-ruby/slack-ruby-bot) — A client for making slack bots.

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https-proxy-agent 5.0.0

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https-proxy-agent

### An HTTP(s) proxy `http.Agent` implementation for HTTPS

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy" server and issues the [CONNECT HTTP method][CONNECT], which tells the proxy to open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other protocols that use this method when connecting over proxies (i.e. WebSockets). See the "Examples" section below for more.

Installation

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

Install with `npm`:

```bash
$ npm install https-proxy-agent
```

Examples

--------

#### `https` module example

```js
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
```
```
```
socket.close();
});
```

API
---

```
```

### new HttpsProxyAgent(Object options)

The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket requests. This is achieved by using the [HTTP `CONNECT` method][CONNECT].

The `options` argument may either be a string URI of the proxy server to use, or an "options" object with more specific properties:

* `host` - String - Proxy host to connect to (may use 'hostname' as well). Required.
* `port` - Number - Proxy port to connect to. Required.
* `protocol` - String - If 'https:', then use TLS to connect to the proxy.
* `headers` - Object - Additional HTTP headers to be sent on the HTTP CONNECT method.
* Any other options given are passed to the `net.connect()`/`tls.connect()` functions.

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1.1261 python-six 1.11.0-2

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1.1262 jetty-xml 9.4.35.v20201120

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.1263 isort 4.3.4+ds1-1

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1.1266 bcrypt 3.2.0

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.
Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.
The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

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

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

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

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

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

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

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https://github.com/numpy/numpy/blob/68fd82271b9ea5a9e50d4e761061dfcca851382a/numpy/core/src/multiarray/datetime.c

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1.1282 glob 0.2.3

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1.1283 gojsonpointer 0.0.0-20190905194746-02993c407bfb

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1.1284 xid 1.2.1

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1.1285 jdk-zulu 8.58.0.13-1

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# Protocol::HTTP1

Provides a low-level implementation of the HTTP/1 protocol.

## Installation

Add this line to your application's Gemfile:

```ruby
gem 'protocol-http1'
```

And then execute:

```
$ bundle
```

Or install it yourself as:

```
$ gem install protocol-http1
```

## Usage

Here is a basic HTTP/1.1 client:

```ruby
require 'async'
require 'async/io/stream'
require 'async/http/endpoint'
require 'protocol/http1/connection'

Async do
  endpoint = Async::HTTP::Endpoint.parse("https://www.google.com/search?q=kittens", alpn_protocols: ["http/1.1"])
  peer = endpoint.connect
  puts "Connected to #{peer} #{peer.remote_address.inspect}"
  # IO Buffering...
  stream = Async::IO::Stream.new(peer)
  client = Protocol::HTTP1::Connection.new(stream)

  def client.read_line
    @stream.read_until(Protocol::HTTP1::Connection::CRLF) or raise EOFError
  end

  puts "Writing request..."
  client.write_request("www.google.com", "GET", "/search?q=kittens", "HTTP/1.1", ["Accept", "/*"])
  client.write_body(nil)

  puts "Reading response..."
```
response = client.read_response("GET")

puts "Got response: #{response.inspect}"

puts "Closing client..."
client.close
end
```

## Contributing

1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (`git commit -am 'Add some feature'`)
4. Push to the branch (`git push origin my-new-feature`)
5. Create new Pull Request

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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

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

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

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

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

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

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

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

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History
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After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

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1.1301 hk2-utils 2.5.0

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1.1306 bind 9.11.3+dfsg-1ubuntu1.16

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision
Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
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Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
  except the first one, were first implemented in the Buildtool project.
  They were later adapted to be part of Boost.Process and, during that
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1.1307 depd 1.1.2

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1.1310 distro 1.0.1

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import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

func (*License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return b1, nil
}
} return swag.ConcatJSON(b1, b2), nil
}

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Jan Mercl <0xjnml@gmail.com>
Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
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The list of container images and versions deployed by the Gardener can be found [here](charts/images.yaml).

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# Notices for GardenerLoki output plugin

This plugin extends [Grafana/Loki](https://github.com/grafana/loki) [fluent-bit output plugin v1.6.0](https://github.com/grafana/loki/tree/v1.6.0/cmd/fluent-bit) which aims to forward log messages from fluent-bit to Loki. It is maintained by SAP.

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## Modifications

After copying the original plugin from [Grafana/Loki](https://github.com/grafana/loki/tree/v1.6.0/cmd/fluent-bit) the files, which was in one single directory, was splitted to different packages. Then a controller package was added. The controller use shared informer to watch for namespaces and process the CREATE, UPDATE, DELETE Events. The `loki.go` file was modified to implement a function for storing the new controller and to search for the dynamic host path in the currently processing log entry. The `config.go` was modified to parse additional properties needed for the new functionality. `loki.go` was split to `loki.go` and `utils.go` to separate methods from helper functions. `out_loki.go` was modified to initialize cluster kubernetes client and make a shared informer which will be passed to each controller.

Paul Borman <borman@google.com>
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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tomb - support for clean goroutine termination in Go.

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1.1318 x-sys 0.0.0-20200826173525-f9321e4c35a6

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1.1319 wcwidth 1.0.1
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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
=======================================================================
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1.1321 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
Author-email: alastair@alastairs-place.net
License: MIT License
Description: netifaces 0.10.4

.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
   :alt: Build Status

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:

```bash
tar xzvzf 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:

```python
>>> import netifaces

Then if you enter

```python
>>> 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

```python
>>> netifaces.ifaddresses('lo0')
{18: [{}], 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:

```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')
```
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.

```
>>> 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

```
>>> 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:

```
>>> 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 CHANGELLOG for a more complete list of changes.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
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Found in path(s):
* /opt/cola/permits/1119811825_1609793496.72/0/netifaces-0-10-4-1-tar-gz/netifaces-0.10.4/PKG-INFO
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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'}]}
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```

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*.

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1.1322 lsof 4.89+dfsg-0.1

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: lsof
Upstream-Contact: https://lists.rcac.purdue.edu/listinfo/lsof-l
Source: ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/
Comment: The following changes were made to the upstream tarball:
1.) The directory dialects/uw was removed for being non-DFSG and not needed in Debian.
2.) The main source was a tarball within a tarball. Only the innermost tarball has been retained.
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1.1329 python-pkg-resources 39.0.1-2

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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1.1340 elastic-go-sysinfo 1.1.1

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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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#     Name <email address>
Raul Silvera <rsilvera@google.com>
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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@gmail.com>
Aaron Jensen <jensen.aaro@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10Xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandr <adarshravichandr91@gmail.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Alexey Semenyuk <alexsemenyuk88@gmail.com>
Alexey Vilenskiy <bynovhack@gmail.com>
Alexis Hildebrandt <surr@yhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@google.com>
Ali Farooq <ali.farooq@pm.me>
Ali Rizvi-Santiago <arizvisa@gmail.com>
Aliaksandr Valialkin <val@yala@gmail.com>
Alice Merrick <amerrick@google.com>
Alil Rachmawadi <suboso@gmail.com>
Allan Simon <allan.simon@supinfo.com>
Allen Li <ayate@n.com>
Alok Menghrajani <alok.menghrajani@gmail.com>
Alwin Doss <alwindoss84@gmail.com>
Aman Gupta <aman@tmn1.net>
Amarjeet Anand <amarjeetanandsingh@gmail.com>
Amir Mohammad Saied <amir@gluegadget.com>
Amr Mohammed <merodiro@gmail.com>
Amrut Joshi <amrut.joshi@gmail.com>
An Long <aik19888@gmail.com>
An Xiao <hac@zju.edu.cn>
Anand K. Mistry <anand@mistry.ninja>
Ananya Saxena <ananyasaxena1@gmail.com>
Anatol Pomozov <anatol.pomozov@gmail.com>
Anders Pearson <anders@columbia.edu>
Anderson Queiroz <contato@andersonq.eti.br>
Andr Carvalho <asantosc@gmail.com>
Andr Martins <aanm90@gmail.com>
Andre Nathan <andrenth@gmail.com>
Andrea Nodari <andreanodari91@gmail.com>
Andrea Spadaccini <spadaccio@gmail.com>
Andreas Auernhammer <aead@mail.de>
Andreas Jellinghaus <andreas@ionisiert.de> <sanj@google.com>
Andreas Litt <andreas.litt@gmail.com>
Andrei Enshin <b1os@bk.ru>
Andrei Gherzan <andrei@resin.io>
Andrei Korzhevskii <a.korzhevskiy@gmail.com>
Andrei Matei <andrei@cockroachlabs.com>
Andrei Tudor Clin <mail@acln.ro>
Andrei Vagin <avagin@gmail.com>
Andrei Vieru <euvieru@gmail.com>
Andres Erbsen <andreser@google.com>
Andres Lowrie <andres.lowrie@gmail.com>
Andrew Austin <andrewacgt@gmail.com>
Andrew Balholm <andybalholm@gmail.com>
Andrew Benton <andrewmbenton@gmail.com>
Andrew Bonventre <andybons@chromium.org>
Andrew Braunstein <awbraunstein@gmail.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Taylor <taylorza@gmail.com>
Chris Waldon <christopher.waldon.dev@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christian Muehlhaeuser <muesli@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christian Svensson <blue@cmd.nu>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
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Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Hlubek <christopher.hlubek@networkteam.com>
Christopher Koch <chrisko.google.com>
Christopher Loessl <cloessl+github@gmail.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
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Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clément Chigot <clement.chigot@atos.net>
Clement Skau <clementska@gmail.com>
Clint J. Edwards <clint.j.edwards@gmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Arnott <colin@urandom.co.uk>
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Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Nelson <colnnelson@gmail.com>
Colin Rice <clr@gmail.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
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Daisuke Fujita <dtanshi45@gmail.com>
Daisuke Suzuki <daisuzu@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <42@dmathieu.com>
Damien Neil <dneil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
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Dan Scales <danscales@gmail.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Cohen <dcohen@gatech.edu>
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Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingramds@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Kessler <dkess@google.com>
Daniel Krech <eikeon@eikeon.com>
Daniel Kumor <rdkumor@gmail.com>
Daniel Langner <s8572327@gmail.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Lublin <daniel@dublin.se>
Daniel Mangum <georgedanielmangum@gmail.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel McCarney <cpu@letsencrypt.org>
Daniel Morings <daniel.morings@gmail.com>
Daniel Nadasi <dnadasi@gmail.com>
Daniel Nephin <dnephin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel S. Fava <danielsfava@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <daniel@speichert.pl>
Georg Reinke <guelfey@gmail.com>
George Gkirtsou <ggkirtsou@gmail.com>
George Hartzell <hartzell@alerce.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
George Tsiilas <tsiilas@gmail.com>
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gergely Brautigam <skarlso777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
Gert Cuykens <gert.cuykens@gmail.com>
Getulio Senech <valentin2507@gmail.com>
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>
Gianguido Sora <g.sora4@gmail.com>
Gidean Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
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Giovanni Bajo <rasky@develer.com>
GitHub User @aca (50316549) <acadx0@gmail.com>
GitHub User @ajnrirp (1688456) <ajnrirp@users.noreply.github.com>
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GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) < zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) < code@bit48.net>
GitHub User @markruler (38225900) < csu0414@gmail.com>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micnncim (21333876) <micnncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @nu05218 (40682920) <nu_ll@icloud.com>
GitHub User @OlgaVlPetrova (44112727) <OVPpetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @soolaugust (10558124) <soolaugust@gmail.com>
GitHub User @surechen (7249331) <surechen17@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @zikaoeroh (48577114) <zikaoeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Green Lightning <GreenLightning.git@googlemail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@gmail.com>
Greg Thelen <gthelen@gmail.com>
Greg Ward <greg@gerg.ca>
Grigoire Delattre <gregoire.delattre@gmail.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Henry Clifford</td>
<td><a href="mailto:h.a.clifford@gmail.com">h.a.clifford@gmail.com</a></td>
</tr>
<tr>
<td>Henry Wong</td>
<td><a href="mailto:liushuai.wang@elastic.co">liushuai.wang@elastic.co</a></td>
</tr>
<tr>
<td>Herbert Georg Fischer</td>
<td><a href="mailto:herbert.fischer@gmail.com">herbert.fischer@gmail.com</a></td>
</tr>
<tr>
<td>Herbie Ong</td>
<td><a href="mailto:herbie@google.com">herbie@google.com</a></td>
</tr>
<tr>
<td>Heschi Kreinick</td>
<td><a href="mailto:heschi@gmail.com">heschi@gmail.com</a></td>
</tr>
<tr>
<td>Hidetatsu Yaginuma</td>
<td><a href="mailto:ygnmhdt@gmail.com">ygnmhdt@gmail.com</a></td>
</tr>
<tr>
<td>Hilko Bengen</td>
<td><a href="mailto:bengen@hilluzination.de">bengen@hilluzination.de</a></td>
</tr>
<tr>
<td>Hiroaki Nakamura</td>
<td><a href="mailto:hnakamur@gmail.com">hnakamur@gmail.com</a></td>
</tr>
<tr>
<td>Hiromichi Ema</td>
<td><a href="mailto:ema.hiro@gmail.com">ema.hiro@gmail.com</a></td>
</tr>
<tr>
<td>Hironao OTSIBO</td>
<td><a href="mailto:motemen@gmail.com">motemen@gmail.com</a></td>
</tr>
<tr>
<td>Hiroshi Ioka</td>
<td><a href="mailto:hirochachacha@gmail.com">hirochachacha@gmail.com</a></td>
</tr>
<tr>
<td>Hitoshi Mitake</td>
<td><a href="mailto:mitake.hitoshi@gmail.com">mitake.hitoshi@gmail.com</a></td>
</tr>
<tr>
<td>Holden Huang</td>
<td><a href="mailto:ttyh061@gmail.com">ttyh061@gmail.com</a></td>
</tr>
<tr>
<td>Songlin Jiang</td>
<td><a href="mailto:hollowman@hollowman.ml">hollowman@hollowman.ml</a></td>
</tr>
<tr>
<td>Hong Ruiqi</td>
<td><a href="mailto:hongruiqi@gmail.com">hongruiqi@gmail.com</a></td>
</tr>
<tr>
<td>Hongfei Tan</td>
<td><a href="mailto:feilengcui008@gmail.com">feilengcui008@gmail.com</a></td>
</tr>
<tr>
<td>Horacio Duran</td>
<td><a href="mailto:horacio.duran@gmail.com">horacio.duran@gmail.com</a></td>
</tr>
<tr>
<td>Horst Rutter</td>
<td><a href="mailto:hrutter@gmail.com">hrutter@gmail.com</a></td>
</tr>
<tr>
<td>Hossein Sheikh Attar</td>
<td><a href="mailto:hattar@google.com">hattar@google.com</a></td>
</tr>
<tr>
<td>Howard Zhang</td>
<td><a href="mailto:howard.zhang@arm.com">howard.zhang@arm.com</a></td>
</tr>
<tr>
<td>Hsin Tsao</td>
<td><a href="mailto:tsao@google.com">tsao@google.com</a></td>
</tr>
<tr>
<td>Hsin-Ho Yeh</td>
<td><a href="mailto:yhh92u@gmail.com">yhh92u@gmail.com</a></td>
</tr>
<tr>
<td>Hu Keping</td>
<td><a href="mailto:hukeping@huawei.com">hukeping@huawei.com</a></td>
</tr>
<tr>
<td>Huan Du</td>
<td><a href="mailto:i@huandu.me">i@huandu.me</a></td>
</tr>
<tr>
<td>Hugues Bruant</td>
<td><a href="mailto:hugues.bruant@gmail.com">hugues.bruant@gmail.com</a></td>
</tr>
<tr>
<td>Huy Le</td>
<td><a href="mailto:huy.dinh.le.89@gmail.com">huy.dinh.le.89@gmail.com</a></td>
</tr>
<tr>
<td>Hyang-Ah Hana Kim</td>
<td><a href="mailto:hakim@google.com">hakim@google.com</a></td>
</tr>
<tr>
<td>Hyoyoung Chang</td>
<td><a href="mailto:hyoyoung@gmail.com">hyoyoung@gmail.com</a></td>
</tr>
<tr>
<td>Ian Cottrell</td>
<td><a href="mailto:iancottrell@gmail.com">iancottrell@gmail.com</a></td>
</tr>
<tr>
<td>Ian Davis</td>
<td><a href="mailto:nospam@iandavis.com">nospam@iandavis.com</a></td>
</tr>
<tr>
<td>Ian Gudger</td>
<td><a href="mailto:ian@loosescr.ws">ian@loosescr.ws</a></td>
</tr>
<tr>
<td>Ian Haken</td>
<td><a href="mailto:ihaken@netflix.com">ihaken@netflix.com</a></td>
</tr>
<tr>
<td>Ian Kent</td>
<td><a href="mailto:iankent85@gmail.com">iankent85@gmail.com</a></td>
</tr>
<tr>
<td>Ian Lance Taylor</td>
<td><a href="mailto:iant@golang.org">iant@golang.org</a></td>
</tr>
<tr>
<td>Ian Leue</td>
<td><a href="mailto:ian@appboy.com">ian@appboy.com</a></td>
</tr>
<tr>
<td>Ian Tay</td>
<td><a href="mailto:iantay@gmail.com">iantay@gmail.com</a></td>
</tr>
<tr>
<td>Ian Zapolsky</td>
<td><a href="mailto:ianzapolsky@gmail.com">ianzapolsky@gmail.com</a></td>
</tr>
<tr>
<td>Ibrahim AshShohail</td>
<td><a href="mailto:ibra.sho@gmail.com">ibra.sho@gmail.com</a></td>
</tr>
<tr>
<td>Icarus Sparry</td>
<td><a href="mailto:golang@icarus.freenu.com">golang@icarus.freenu.com</a></td>
</tr>
<tr>
<td>Idora Sethi</td>
<td><a href="mailto:icchaseithi@gmail.com">icchaseithi@gmail.com</a></td>
</tr>
<tr>
<td>Ignacio Hagopian</td>
<td><a href="mailto:jsign.uy@gmail.com">jsign.uy@gmail.com</a></td>
</tr>
<tr>
<td>Igor Bernstein</td>
<td><a href="mailto:igorbernstein@gmail.com">igorbernstein@gmail.com</a></td>
</tr>
<tr>
<td>Igor Bolotnikov</td>
<td><a href="mailto:igor.v.bolotnikov@gmail.com">igor.v.bolotnikov@gmail.com</a></td>
</tr>
<tr>
<td>Igor Dolzhikov</td>
<td><a href="mailto:bluesriverz@gmail.com">bluesriverz@gmail.com</a></td>
</tr>
<tr>
<td>Igor Vashyst</td>
<td><a href="mailto:ivashyst@gmail.com">ivashyst@gmail.com</a></td>
</tr>
<tr>
<td>Igor Zhilianin</td>
<td><a href="mailto:igor.zhilianin@gmail.com">igor.zhilianin@gmail.com</a></td>
</tr>
<tr>
<td>Ikko Ashimine</td>
<td><a href="mailto:eltociear@gmail.com">eltociear@gmail.com</a></td>
</tr>
</tbody>
</table>

Open Source Used in SMI 2021.01.0-Jan-2022 16141
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Jason A. Donenfeld <Jason@zx2c4.com>
Jason Baker <jason-baker@users.noreply.github.com>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jbuberel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delponteje@gmail.com>
Jason Hall <jasonhall@google.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomania7@gmail.com>
Jason Wangsadinata <jwangssadinata@gmail.com>
Javier Kohen <jkohen@google.com>
Javier Revillas <jrevillas@massivedynamic.io>
Javier Segura <javisim@gmail.com>
Jay Conrod <jayconrod@google.com>
Jay Lee <BusyJayLee@gmail.com>
Jay Taylor <outtetime@gmail.com>
Jay Weisskopf <jay@jayschwa.net>
Jean de Klerk <deklerk@google.com>
Jean-Andr Santoni <jean.andre.santoni@gmail.com>
Jean-Francois Bustarret <jfb@bustarret.com>
Jean-Francois Cantin <jfcantin@gmail.com>
Jean-Marc Eurin <jmeurin@google.com>
Jean-Nicolas Moal <jn.moal@gmail.com>
Jed Denlea <jed@fastly.com>
J drzej Szczepaniak <jbszczepaniak@gmail.com>
Jeet Parekh <jeetparekh96@gmail.com>
Jeevanandam M <jeeva@myjeeva.com>
Jeff (Zhefu) Jiang <jeffjiangi@gmail.com>
Jeff Craig <jeffcraig@google.com>
Jeff Dupont <jeff.dupont@gmail.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jrjohnson@gmail.com>
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeffrey H <jeffreyl92@gmail.com>
Jelte Fennema <github-tech@jeltef.nl>
Jens Frederich <jfjfrederich@gmail.com>
Jeremiah Harmsen <jeremiah@google.com>
Jeremy Banks <jeremy.ca>
Jeremy Canady <jcanady@gmail.com>
Jeremy Faller <jeremy@golang.org>
Jeremy Jackins <jeremyjjackins@gmail.com>
Jeremy Jay <jeremy@phnjay.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jeroen Bobbeldijk <jerbob92@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewwbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@yandex.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matt.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Drosdo-www <g1ran1q@gmail.com>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenic <maxseminink@gmail.com>
Max Ushakov <ushmax@gmail.com>
Maxim Eryomenko <moeryomenko@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@yandex.com>
Maxim Pugachev <pugachevmm@gmail.com>
Maxim Ushakov <ushakov@gmail.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Maximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo < mengzhuo1203@gmail.com> <mzh@golangcn.org>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knyszek <mknyszek@gmail.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Cook <code@mdcook.net>
Michael Darakananda <pongad@google.com>
Michael Dorner <mail@michaeldorner.de>
Michael Edwards <medwards@walledcity.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Ellis <micellis@justin.tv>
Michael Fraenkel <michael.fraenkel@gmail.com>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tilleniux <mkti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.ley.org>
Mike Danese <mikedanese@google.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuell@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <miike@swowbug.com>
Mike Wiacek <mjwiacek@ibm.com>
Mikhail Fesenko <proggga@gmail.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <mikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milan Patel <bicelot3@gmail.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Mirko Hansen <baaazen@gmail.com>
Miroslav Genov <mgenov@gmail.com>
Misty De Meo <mistydemeo@gmail.com>
Monis Khan <nkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moritz Fain <moritz@fain.io>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevds@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammad Hamza Farrukh <hamzafarrukh141@gmail.com>
Muhammed Uluyol <uluyol0@gmail.com>
Muir Manders <muir@mnd.rs>
Nicolas BRULEZ <n.brulez@gmail.com>
Nicolas Kaiser <nikai@nikai.net>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>
Niek Sanders <niek.sanders@gmail.com>
Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nik Nyby <nnby@columbia.edu>
Nikhil Benesch <nikhil.benesch@gmail.com>
Nikita Gillmann <nikita@n0.is> <ng0@n0.is>
Nikita Kryuchkov <nkryuchkov10@gmail.com>
Nikita Vanyasin <nikita.vanyasin@gmail.com>
Niklas Schnelle <niklas.schnelle@gmail.com>
Niko Dziemba <niko@dziemba.com>
Nikolay Turpitko <nikolay@turpitko.com>
Nikson Kanti Paul <nikson.sust@gmail.com>
Nils Larsgrd <nilsmagnus@gmail.com>
Nir Soffer <nirsof@gmail.com>
Niranjan Godbole <niranjan8192@gmail.com>
Nishanth Shanmugham <nishanth.gerrard@gmail.com>
Noah Campbell <noahcampbell@gmail.com>
Noah Goldman <noahg34@gmail.com>
Noble Johnson <noblepoly@gmail.com>
Nodir Turakulov <nodir@google.com>
Noel Georgi <git@frezbo.com>
Norberto Lopes <nlopes.ml@gmail.com>
Norman B. Lancaster <qbradq@gmail.com>
Nuno Cruces <ncruces@users.noreply.github.com>
Obei Sideg <obei.sideg@gmail.com>
Obeyda Djeffal <djefobey@gmail.com>
Odin Ugedal <odin@ugedal.com>
Oleg Bulatov <dimage@yandex-team.ru>
Oleg Vakheta <helginet@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Oliver Powell <oliverpowell84@gmail.com>
Oliver Stenbom <ostenbom@pivotal.io>
Oliver Tan <otan@cockroachlabs.com>
Oliver Tonnohofer <olt@bogosoft.com>
Olivier Antoine <olivier.antoine@gmail.com>
Olivier Duperray <duperray.olivier@gmail.com>
Olivier Poitrey <rs@dynamotion.com>
Olivier Saingre <osaingre@gmail.com>
Olivier Wulveryck <olivier.wulveryck@gmail.com>
Omar Jarjur <ojarjur@google.com>
Onkar Jadhav <omjadhav2610@gmail.com>
Sarah Adams <shadams@google.com>
Sardorbek Pulatov <sardorbek.pulatov@outlook.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@google.com>
Sasha Sobol <sasha@scaledinference.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Ragan <ragansa@fb.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@google.com>
Sean Chen <ooohcode@gmail.com>
Sean Chittenden <seanc@joyent.com>
Sean Christopherson <sean.j christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Hildebrand <seanwhildebrand@gmail.com>
Sean Liao <seankhliao@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Chlopecki <sebsebmce@gmail.com>
Sebastian Kinne <skinne@google.com>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Lemeshkin <sergeilem@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergei Zagurskii <gvozdoder@gmail.com>
Sergey ‘SnakE’ Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synesis.ru>
Sergey Frolov <sfrolov@gmail.com>
Sergey Glushchenko <gs sergey@gmail.com>
Sergey Ivanov <ser1325@gmail.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Tzach Shabtay <tzachshabtay@gmail.com>
Tzu-Chiao Yeh <su3g4284zo6y7@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Udalov Max <re.udalov@gmail.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangiparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Utkarsh Dixit <53217283+utkarsh-extc@users.noreply.github.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Valentin Vidic <vvidic@valentin-vidic.from.hr>
Vee Zhang <veezhang@126.com> <veezhang@gmail.com>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturaev <vearutop@gmail.com>
Victor Chudnovsky <vchudnov@gmail.com>
Victor Michel <victor@optimyze.cloud>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@gmail.com>
Ville Skytt <ville.skytta@iki.fi>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Viu Rajashekhar <vinutheraj@gmail.com>
Vish Subramanian <vish@gmail.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara R <r.visweswara@gmail.com>
Vitaly Zdanovich <zdanovich.vitaly@ya.ru>
Vitor De Mario <vitordemario@gmail.com>
Vivek Sekhar <vsekar@gmail.com>
Vivek V <iamvivekv96@gmail.com>
Vivian Liang <vliang88@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Evgrafov <evgrafov.vladimir@gmail.com>
Vladimir Kovpak <cn007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Vojtech Bocek <vbocek@gmail.com>
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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Langley <agl@golang.org>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <selpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Acio Jnior <aeciodantasjunior@gmail.com>
Ahmed Waheed Moanes <oneofone@gmail.com>
Ahmy Yulrizka <yulrizka@gmail.com>
Aiden Scandella <ai@uber.com>
Ainar Garipov <gugl.zadolbal@gmail.com>
Akihiro Suda <suda.kyoto@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Alan Donovan <adonovan@google.com>
Alan Shreve <alan@inconsreveable.com>
Albert Strasheim <fullung@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>
Aleksandar Dezelin <dezelin@gmail.com>
Benoit Sigoure <tsunanet@gmail.com>
Berengar Lehr <Berengar.Lehr@gmx.de>
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>
Bill O'Farrell <billo@ca.ibm.com>
Bill Thiede <couchmoney@gmail.com>
Billie Harold Cleek <bhcleek@gmail.com>
Bjorn Tillenius <bjorn@tillenius.me>
Bjorn Tipling <bjorn.tipling@gmail.com>
Blake Gentry <blakesgentry@gmail.com>
Blake Mizerany <blake.mizerany@gmail.com>
Bobby Powers <bobbypowers@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Brandon Gilmore <varz@google.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O'Dea <bod@golang.org>
Brett Cannon <bcannon@gmail.com>
Brian Dellisanti <briandellisanti@gmail.com>
Brian G. Merrell <bmgmerrell@gmail.com>
Brian Gitonga Marete <marete@toshnix.com> <bgmarete@gmail.com> <bgm@google.com>
Brian Ketelsen <bketelsen@gmail.com>
Brian Slesinsky <skybrian@google.com>
Brian Smith <oohohvi@gmail.com>
Bryan C. Mills <bcmills@google.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Bryan Ford <brynosaurus@gmail.com>
Caine Tighe <arctanofyourface@gmail.com>
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>
Caleb Spare <cespare@gmail.com>
Carl Chatfield <carlchatfield@gmail.com>
Carl Jackson <carl@stripe.com>
Carl Mastrangelo <notcarl@gmail.com>
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>
Carlos Castillo <cookieo9@gmail.com>
Carlos Cirello <uldericofilho@gmail.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <cnicutar@gmail.com>
Catalin Patulea <catalinp@google.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
ChaiShushan <chaishushan@gmail.com>
Charles L. Dorian <cldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@gmail.com>
Cherry Zhang <cherryyz@google.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Lennert <calennert@gmail.com>
Chris Manghane <cmang@golang.org>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@google.com>
Christopher Wedgwood <cw@f00f.org>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clement Skau <clementskaau@gmail.com>
Colby Ranger <cranger@gmail.com>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Corey Thomasson <ethom.lists@gmail.com>
Cosmos Nicolaou <cnicolau@gmail.com>
Cristian Staretu <unclejacksons@gmail.com>
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>
Damian Gryski <dgryski@gmail.com>
Damien Neil <dneil@gmail.com>
Dan Caddigan <golcdaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Jacques <dnj@gmail.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Johansson <dajo2002@gmail.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jae Kwon <jae@tendermint.com>
Jakob Borg <jakob@nym.se>
Jakub ajka <jcajka@redhat.com>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
James Aguilar <jaguilar@google.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@google.com>
James David Chalfant <james.chalfant@gmail.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Meneghello <rawrz0r@gmail.com>
James P. Cooper <jamescooper@gmail.com>
James Robinson <jamesr@redhat.com> <jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Sweet <james.sweet88@gmail.com>
James Toy <nil@opensesame.st>
James Tucker <raggi@google.com>
James Whitehead <jnwwhiteh@gmail.com>
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Merci <0xnml@gmail.com>
Jan Merci <befelempeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.moneses@ubuntu.com> <jani.moneses@gmail.com>
Jaroslavas Poecko <jp@webmaster.ms>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Del Ponte <delpontej@gmail.com>
Jason Hall <jasonhall@google.com>
Jason Travis <infomaniac7@gmail.com>
Jay Weisskopf <jay@jayschwa.net>
Jean-Marc Eurin <jmeurin@gmail.com>
Jed Denlea <jed@fastly.com>
Jeff Craig <jeffcraig@google.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jens Frederich <jfrederich@gmail.com>
Jeremiah Harmsen <jeremiah@gmail.com>
Jeremy Jackins <jeremyjackins@gmail.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Ryan Slade <ryanslade@gmail.com>
Salar Onur <caglar@10ur.org>
Sai Cheemalapati <saicheems@google.com>
Salmin Aljamniz <s@0x65.net>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic@gmail.com>
Sanjay Menakuru <balasanjay@gmail.com>
Sasha Lionheart <lionhearts@gmail.com>
Sasha Sobol <sasha@scaledinfERENCE.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@gmail.com>
Sean Burford <sburford@gmail.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@gmail.com>
Sebastien Binet <seb.binet@gmail.com>
Sebastien Paolacci <sebastien.paolacci@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergey ‘SnakE’ Gromov <snake.scaLY@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergio Luis O. B. Correia <sergio@correia.cc>
Seth Hoening <seth.a.hoening@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shaozhen Ding <dsz0111@gmail.com>
Shawn Ledbetter <sledbetter@gmail.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shun Fan <sfan@gmail.com>
Silvan Jegen <s.jegen@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.1349 json-iterator-go 1.1.7

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1.1350 go-openapi-jsonpointer 0.19.5

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1.1352 fs.realpath 1.0.0

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1.1354 go-runtime 1.10.4

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Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Koch <chrisko@google.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@google.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clement Skau <clementskaau@gmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Corey Thomasson <cthomas.lists@gmail.com>
Cosmos Nicolaou <cnicolaou@gmail.com>
Costin Chirvasuta <ctin@google.com>
Cristian Staretu <unclejacksons@gmail.com>
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>
Cyrill Schumacher <cyrill@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
David Hubbard <dsp@google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@google.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dSYMonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Titarenco <david.titarenco@gmail.com>
David Volquartz Lebech <david@lebech.info>
Davies Liu <davies.liu@gmail.com>
Davor Kapsa <davor.kapsa@gmail.com>
Dean Prichard <dean.prichard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Nagorny <denis.nagorny@intel.com>
Denys Honsiorovskyi <honsiorovskyi@gmail.com>
Derek Buitenhuis <derek.buitenhuis@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgstyle.net>
Derek Parker <parkerderek86@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhaivat Pandit <dhaivatpandit@gmail.com>
Dhananjay Nakrani <dhananjayn@gmail.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
Di Xiao <dixiao@gmail.com>
Didier Spezia <didier.06@gmail.com>
Dieter Plaetinck <dieter@raintank.io>
Dimitri Tcaciuc <dtcaciuc@gmail.com>
Dirk Gadsden <dirk@esherido.com>
Diwaker Gupta <diwakergupta@gmail.com>
Dmitri Popov <operator@cv.dp-net.com>
Dmitri Shuralyov <shurcool@gmail.com>
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>
Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com>
Dmitriy Vyukov <dvyyukov@gmail.com>
Dmitry Chestnykh <dchest@gmail.com>
Dmitry Savintsev <dsavints@gmail.com>
Dmitry Yakunin <nonamezeil@gmail.com>
Dominic Green <dominictg@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>

---

Open Source Used In SMI 2021.01.0-Jan-2022 16302
Euan Kemp <euank@euank.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@google.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Evan Kroske <evankroske@google.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Polyakov <zbr@ioremap.net>
Ewan Chou <coocoord@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedf@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fshahriar@gmail.com>
Federico Simoncelli <fisimonce@redhat.com>
Fedor Indutny <fedor@indutny.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Geisendrfer <haimuiba@gmail.com>
Filip Gruszczynski <gruszczyn@gmail.com>
Filippo Valsorda <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francisco Campoy <campoy@golang.org>
Francisco Claude <fclauide@recoded.cl>
Francisco Rojas <francisco.rojas.galegos@gmail.com>
Francisco Souza <franciscossouza@gmail.com>
Frank Somers <fsomers@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrihjof@gmail.com>
Frits van Bommel <fvbommel@gmail.com>
Fumitoshi Ukai <ukai@gmail.com>
Gaal Yahas <gaal@gmail.com>
Hanjun Kim <hallazzang@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Hariharan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <morenoh149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hauke Lüll <hloeffler@users.noreply.github.com>
Hvvard Haugen <hvard.haugen@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyuheng@gmail.com>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@gmail.com>
Heschi Kreinick <heschi@gmail.com>
Hilko Bengen <bengen@hilluzination.de>
Hiroaki Nakamura <hnakamura@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hirosi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <ttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Hossein Sheikh Attar <hattar@gmail.com>
Hsin Tsao <tsao@huawei.com>
Hu Keping <hukeping@huawei.com>
Hugues Bruant <hugues.bruant@gmail.com>
Hyang-Ah Hana Kim <hakim@gmail.com> <hyangah@gmail.com>
Ian Gudger <ian@loosescre.ws>
Ian Kent <iankent85@gmail.com>
Ian Lance Taylor <iant@golang.org>
Ibrahim AshShohail <ibra.sho@gmail.com>
Icarus Sparry <golang@icarus.freeuk.com>
Iccha Sethi <icchasethi@gmail.com>
Idora Shinatose <idora.shinatose@gmail.com>
Igor Bernstein <igorbernstein@gmail.com>
Igor Dolzhikov <bluesriverz@gmail.com>
Igor Vashyst <ivashyst@gmail.com>
Ilya Tocar <iliya.tocar@intel.com>
INADA Naoki <songofacandy@gmail.com>
Inanc Gumus <inanc@gmail.com>
Ingo Krabbe <ikrabbe.ask@gmail.com>
Ingo Oeser <nightlyone.googlemail.com> <nightlyone@gmail.com>
Irieda Noboru <irieda@gmail.com>
Isaac Wagner <ibw@isaacwagner.me>
Iskander Sharipov <iskander.sharipov@intel.com>
Ivan Babrou <ivan@cloudfare.com>
Ivan Bertona <ivan.bertona@gmail.com>
Ivan Krasin <krasin@golang.org>
Ivan Moscoso <moscoso@gmail.com>
Ivan Ukhov <ivan.ukhov@gmail.com>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>
Jack Lindamood <jlindamo@justin.tv>
Jacob Baskin <jbaskin@gmail.com>
Jacob H. Haven <jacob@cloudfare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jae Kwon <jae@tendermint.com>
Jakob Borg <jakob@nym.se>
Jakub ajka <jcajka@redhat.com>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
James Aguilar <jaguilar@google.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@gmail.com>
James Clarke <jrtc27@jrtc27.com>
James Cowgill <James.Cowgill@imgtec.com>
James David Chalfant <james.chalfant@gmail.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Hartig <fastest963@gmail.com>
James Lawrence <jljatone@gmail.com>
James Meneghello <rawrz0r@gmail.com>
James Myers <jmyers9@gmail.com>
James Neve <jamesoneve@gmail.com>
James P. Cooper <jamespcooper@gmail.com>
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
James Sweet <james.sweet88@googlemail.com>
James Toy <nil@opensesame.st>
James Treanor <jtreanor3@gmail.com>
James Tucker <raggi@google.com>
James Whitehead <jnwhiteh@gmail.com>
Jamie Beverly <jamie.r.bevery@gmail.com>
Jamie Gennis <jgennis@gmail.com> <jgennis@gmail.com>
Jamie Kerr <jkerr113@googlemail.com>
Jamie Liu <jaamieliu@gmail.com>
Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Mercl <0xjnml@gmail.com> <befelemepeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jbuberel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delpontej@gmail.com>
Jason Hall <jasonhall@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wangsadinata <jwangsadinata@gmail.com>
Javier Segura <javism@gmail.com>
Jay Conrod <jayconrod@gmail.com>
Jay Weisskopf <jay@jayeschwa.net>
Jean-Francois Cantin <jfcantin@gmail.com>
Jean-Marc Eurin <jmeurin@gmail.com>
Jean-Nicolas Moal <jn.moal@gmail.com>
Jed Denlea <jed@fastly.com>
Jeet Parekh <jeetparekh96@gmail.com>
Jeff (Zhefu) Jiang <jeffjiang@gmail.com>
Jeff Craig <jeffcraig@gmail.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jrjohnson@gmail.com>
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeffrey H <jeffreyh192@gmail.com>
Jelte Fennema <github-tech@jeltef.nl>
Jens Frederick <jf frederich@gmail.com>
Jeremiah Harmsen <jeremiah@gmail.com>
Jeremy Jackins <jeremyjackins@gmail.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jeroen Bobbeldijk <jerbob92@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jesse Szwedko <jesse.szwedko@gmail.com>
Jianing Yu <jnyu@gmail.com>
Jianqiao Li <jianqiaoli@gmail.com>
Jihyun Yu <vjh0502@gmail.com>
Jim Cote <jfcote87@gmail.com>
Jim Kingdon <jim@bolt.me>
Jim McGrath <jimmcc2@gmail.com>
Jimmy Frasche <soapboxcicero@gmail.com>
Jimmy Zelinskie <jimmyzelinskie@gmail.com>
Jin-wook Jeong <jeweljar@hanmail.net>
Jingcheng Zhang <diogin@gmail.com>
Jingguo Yao <yaojingguo@gmail.com>
Jiong Du <londevil@gmail.com>
Jirka Dank <dnk@mail.muni.cz>
Jiulong Wang <jiulongw@gmail.com>
Joakim Sembrant <serbaut@gmail.com>
Joe Farrell <joe2farrell@gmail.com>
Joe Harrison <joehazzers@gmail.com>
Joe Henke <joed.henke@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Joe Poirier <jdpoirier@gmail.com>
Joe Richey joerichey@google.com <joerichey@google.com>
Joe Shaw <joe@joeshaw.org>
Joe Sylve <joe.sylve@gmail.com>
Joe Tsai <joetsai@digital-static.net>
Joel Sing <jsing@gmail.com>
Jol Stemmer <jstemmer@fog.com>
Joel Stemmer <stemma@fog.com>
Joey Geiger <jgeiger@users.noreply.google.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
Johan Euphrosine <proppy@google.com>
Johan Sageryd <j@1616.se>
John Asmuth <jasmuth@gmail.com>
John Beisley <huin@gmail.com>
John C Barstow <jbowtie@amathaine.com>
John DeNero <denero@gmail.com>
John Dethridge <jcd@golang.org>
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>
John Howard Palevich <jack.palevich@gmail.com>
John Jeffery <jjeffery@sp.com.au>
John Jenkins <twodopeshaggy@gmail.com>
John Newlin <jnewlin@gmail.com>
John Potocny <johnp@vividcortex.com>
John R. Lenton <jlenton@gmail.com>
John Schnake <schnake@jk@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Johnny Luo <johnnyluo1980@gmail.com>
Jon Chen <jchen@justin.tv>
Jonathan Allie <jonallie@fog.com>
Jonathan Amsterdam <jba@gmail.com>
Jonathan Boulle <jonathanboule@gmail.com>
Jonathan Feinberg <feinberg@fog.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhsheu@gmail.com>
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>
Jonathan Nieder <jrn@gmail.com>
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <jonesskoo@derbian.fi>
Joop Kiefte <ikoja@gmail.com> <joop@kiefte.net>
Jordan Krage <jman88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jos Visser <josv@google.com>
Jose Luis Vzquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jeb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleecher Snyder <jsharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@gmail.com>
Josh Holland <jrh@joshh.co.uk>
Josh Roppo <joshroppo@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jcjoshuachase@gmail.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@google.com>
JT Olds <jtolds@xnet5.com>
Juan Carlos <juanjcsr@gmail.com>
Jude Pereira <judebpereira@gmail.com>
Jukka-Pekka Kekkonen <karatepeka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <jk+github@diginio.de>
Julian Pastarmov <pastarmovj@gmail.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julien Schmidt <google@julienschmidt.com>
Julio Montes <julio.montes@intel.com>
Jungho Ahn <jahn@google.com>
Junya Hayashi <ledmonster@gmail.com>
Jure Ham <jure.ham@zemanta.com>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justyntemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Trukenmiller <kyte78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kamal Aboul-Hosn <aboutlhosn@gmail.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kris Rousey <krousey@google.com>
Kristopher Watts <traetox@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyle Shannon <kyle@pobox.com>
Kyohei Kadota <lufia@lufia.org>
Kyrillo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lanmm@google.com>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Leigh McCulloch <leighmcc@gmail.com>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@gmail.com>
Luan Santos <cfcluan@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@gmail.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Curley <qpingu@gmail.com>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zhengyu He <hzy@google.com>
Zhongtao Chen <chenzhongtao@126.com>
Zhongwei Yao <zhongwei.yao@arm.com>
Ziad Hatahet <hatahet@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
<max.faceless.frei@gmail.com>
<hagen1778@gmail.com>
<tbunyk@gmail.com>
<faxriddinjon@gmail.com>
<zs349596@gmail.com>
<bronze1man@gmail.com>
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# Names should be added to this file as:
# Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
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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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1.1375 threading-building-blocks 2017

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1.1377 cookie-signature 1.0.6

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```javascript
var cookie = require('cookie-signature');

var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGlIkCzPz+C0B064FNgHdEjox7ch8tOBGsIz5QI');

var val = cookie.sign('hello', 'tobiiscool');
cookie.unsign(val, 'tobiiscool').should.equal('hello');
cookie.unsign(val, 'luna').should.be.false;
```

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1.1378 packaging 16.8

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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Authors with a FSF copyright assignment

LIBGCRYPT Werner Koch 2001-06-07
Assigns past and future changes.
Assignment for future changes terminated on 2012-12-04.
wk@gnupg.org
Designed and implemented Libgcrypt.

GNUPG Matthew Skala 1998-08-10
Disclaims changes.
mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPGNatural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.
GNUPG Michael Roth Germany 1998-09-17
Assigns changes.
mroth@nessie.de
Wrote cipher/des.c.
Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18
Disclaims changes.
nh@df.lth.se
Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/enct-data.c, g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson 2002-10-25
Assigns past and future changes to FSF (cipher/[md4,crc].c, CTR mode, CTS/MAC flags, self test improvements)
simon@josefsson.org

LIBGCRYPT Moritz Schulte 2003-04-17
Assigns past and future changes.
moritz@g10code.com

GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in, 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)

LIBGCRYPT Brad Hards 2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT  Hye-Shik Chang  2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEE cipher)

LIBGCRYPT  Werner Dittmann  2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
(mpi/amd64, tests/mpitests.c)

GNUPG      David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
(cipher/camellia-glue.c and related stuff)

LIBGCRYPT  Andrey Jivsov  2010-12-09
Assigns Past and Future Changes
openpgp@brainhub.org
(cipher/ecc.c and related files)

LIBGCRYPT  Ulrich Müller  2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
(Changes to cipher/idea.c and related files)

LIBGCRYPT  Vladimir Serbinenko  2012-04-26
Assigns Past and Future Changes
phcoder@gmail.com
(cipher/serpent.c)

Authors with a DCO
====================
Andrei Scherer <andsch@inbox.com>
2014-08-22:BF7CEF794F9.000003F0andsch@inbox.com:

Christian Aistleitner <christian@quelltextlich.at>
2013-02-26:20130226110144.GA12678@quelltextlich.at:

Christian Grothoff <christian@grothoff.org>
2013-03-21:514B5D8A.6040705@grothoff.org:

Dmitry Eremin-Solenikov <dbaryshkov@gmail.com>
2013-07-13:20130713144407.GA27334@fangorn.rup.mentorg.com:
Dmitry Kasatkin <dmitry.kasatkin@intel.com>
2012-12-14:50CAE2DB.80302@intel.com:

Jrmie Courges-Anglas <jca@wxcvbn.org>
2016-05-26:87bn3ssqg0.fsf@ritchie.wxcvbn.org

Jussi Kivilinna <jussi.kivilinna@mbnet.fi>
2012-11-15:20121115172331.150537dzb516jmy8@www.dalek.fi:

Jussi Kivilinna <jussi.kivilinna@iki.fi>
2013-05-06:5186720A.4090101@iki.fi:

Markus Teich <markus dot teich at stusta dot mhn dot de>
2014-10-08:2014008180509.GA2770@trolle:

Mathias L. Baumann <mathias.baumann at sociomantic.com>
2017-01-30:07c06d79-0828-b564-d604-fd16c7c86ebe@sociomantic.com:

Milan Broz <gmazyland@gmail.com>
2014-01-13:52D4CC6.4050707@gmail.com:

Peter Wu <peter@lekensteyn.nl>
2015-07-22:20150722191325.GA8113@al:

Rafal Carr <funman@videolan.org>
2012-04-20:4F91988B.1080502@videolan.org:

Sergey V. <sftp.mtuci@gmail.com>
2013-11-07:2066221.5IYa7Yq760@darkstar:

Stephan Mueller <smueller@chronox.de>
2014-08-22:2008899.25OeoelVVA@myon.chronox.de:

Tom Mrz <tm@t8m.info>
2012-04-16:1334571250.5056.52.camel@vespa.frost.loc:

Vitezslav Cizek <vcizek@suse.com>
2015-11-05:20151105131424.GA32700@kolac.suse.cz

Werner Koch <wk@gnupg.org> (g10 Code GmbH)
2012-12-05:87obi8u4h2.fsf@vigenere.g10code.de:

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1.1416 google-api-go-client 0.36.0

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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Dolan <dolan@lightstep.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <light@google.com>
Sarah Adams <shadams@google.com>
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package api

import (  "bytes"  "io/ioutil"  "os"  "path/filepath"  "regexp"  "testing" )
// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights reserved\.)*

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(//|#) license that can be found in the LICENSE file.

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
        if err != nil {
            return err
        }
        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }
        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
        if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix))) {
            t.Errorf("%v: license header not at the top", path)
        }
        return nil
    })
if err != nil {
    t.Fatal(err)
}

1.1417 cobra 1.1.1

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bmatsuo
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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
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
and the initial implementation of incremental propagation, including the following new or changed files:

```plaintext
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

describe the initial implementation of incremental propagation, including the following new or changed files:

```plaintext
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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1.1437 kubernetes 18.20.0
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
    /* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLSOM
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#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM(-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*/

#ifndef HAVE_SETREGSID
int setreggid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETREUID
int setreuid(uid_t, uid_t, uid_t);
#endif

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
#endif

#define _BSD_WAITPID_H

#endif

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) (_W_INT(w) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) (_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

1.1444 kubernetes-client 0.18.3

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1.1452 go-runtime 1.5.1

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Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gary Burd <gary@beagledreams.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Geert-Johan Riemer <gjr19912@gmail.com>
Georg Reinke <guelfey@gmail.com>
George Shammas <george@shammas.as>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giulio Iotti <dullgiulio@gmail.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Greg Ward <greg@gerg.ca>
Guillaume J. Charmes <guillaume@charmes.net>
Guobiao Mei <meiguobiao@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustavo Franco <gustavofranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net>
Gwenael Treguier <gwenn.kahz@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Han-Wen Nienhuys <hanwen@google.com>
Hari haran <hariharan.uno@gmail.com>
Hariharan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Hvard Haugen <havard.haugen@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rahul Chaudhry</td>
<td><a href="mailto:rahulchaudhry@chromium.org">rahulchaudhry@chromium.org</a></td>
</tr>
<tr>
<td>Raif S. Naffah</td>
<td><a href="mailto:go@naffah-raif.name">go@naffah-raif.name</a></td>
</tr>
<tr>
<td>Rajat Goel</td>
<td><a href="mailto:rrajat.goel2010@gmail.com">rrajat.goel2010@gmail.com</a></td>
</tr>
<tr>
<td>Raph Levien</td>
<td><a href="mailto:raph@google.com">raph@google.com</a></td>
</tr>
<tr>
<td>Raul Silvera</td>
<td><a href="mailto:rsilvera@google.com">rsilvera@google.com</a></td>
</tr>
<tr>
<td>Rmy Oudompheng</td>
<td><a href="mailto:oudompe@phare.normalesup.org">oudompe@phare.normalesup.org</a></td>
</tr>
<tr>
<td>Richard Barnes</td>
<td><a href="mailto:rlb@ipv.sx">rlb@ipv.sx</a></td>
</tr>
<tr>
<td>Richard Crowley</td>
<td>rrcrowley.org</td>
</tr>
<tr>
<td>Richard Eric Gavaletz</td>
<td><a href="mailto:gavaletz@gmail.com">gavaletz@gmail.com</a></td>
</tr>
<tr>
<td>Richard Musiol</td>
<td><a href="mailto:mail@richard-musiol.de">mail@richard-musiol.de</a></td>
</tr>
<tr>
<td>Rick Arnold</td>
<td><a href="mailto:rickarnoldjr@gmail.com">rickarnoldjr@gmail.com</a></td>
</tr>
<tr>
<td>Rick Hudson</td>
<td><a href="mailto:rlh@golang.org">rlh@golang.org</a></td>
</tr>
<tr>
<td>Risto Jaakko Saarelma</td>
<td><a href="mailto:rsaarelma@gmail.com">rsaarelma@gmail.com</a></td>
</tr>
<tr>
<td>Rob Pike</td>
<td><a href="mailto:r@golang.org">r@golang.org</a></td>
</tr>
<tr>
<td>Robert Daniel Kortschak</td>
<td><a href="mailto:dan.kortschak@adelaide.edu.au">dan.kortschak@adelaide.edu.au</a></td>
</tr>
<tr>
<td>Robert Dinu</td>
<td><a href="mailto:r@varp.se">r@varp.se</a></td>
</tr>
<tr>
<td>Robert Figueiredo</td>
<td><a href="mailto:robfig@gmail.com">robfig@gmail.com</a></td>
</tr>
<tr>
<td>Robert Griesemer</td>
<td><a href="mailto:gri@golang.org">gri@golang.org</a></td>
</tr>
<tr>
<td>Robert Hencke</td>
<td><a href="mailto:robert.hencke@gmail.com">robert.hencke@gmail.com</a></td>
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<tr>
<td>Robert Obryk</td>
<td><a href="mailto:robryk@gmail.com">robryk@gmail.com</a></td>
</tr>
<tr>
<td>Robert Sesek</td>
<td><a href="mailto:rsesek@gmail.com">rsesek@gmail.com</a></td>
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<tr>
<td>Robert Snedegar</td>
<td><a href="mailto:roberts@google.com">roberts@google.com</a></td>
</tr>
<tr>
<td>Robin Eklind</td>
<td><a href="mailto:r.eklind.87@gmail.com">r.eklind.87@gmail.com</a></td>
</tr>
<tr>
<td>Rodrigo Moraes de Oliveira</td>
<td><a href="mailto:rodrigo.moraes@gmail.com">rodrigo.moraes@gmail.com</a></td>
</tr>
<tr>
<td>Rodrigo Rafael Monti Kochenburger</td>
<td><a href="mailto:divoxx@gmail.com">divoxx@gmail.com</a></td>
</tr>
<tr>
<td>Roger Pau Monn</td>
<td><a href="mailto:royger@gmail.com">royger@gmail.com</a></td>
</tr>
<tr>
<td>Roger Peppe</td>
<td><a href="mailto:rogpeppe@gmail.com">rogpeppe@gmail.com</a></td>
</tr>
<tr>
<td>Ron Hashimoto</td>
<td><a href="mailto:mail@h2so5.net">mail@h2so5.net</a></td>
</tr>
<tr>
<td>Ron Minnich</td>
<td><a href="mailto:rminnich@gmail.com">rminnich@gmail.com</a></td>
</tr>
<tr>
<td>Ross Light</td>
<td><a href="mailto:light@google.com">light@google.com</a></td>
</tr>
<tr>
<td>Rowan Worth</td>
<td><a href="mailto:sqweek@gmail.com">sqweek@gmail.com</a></td>
</tr>
<tr>
<td>Rui Ueyama</td>
<td><a href="mailto:ruiu@gmail.com">ruiu@gmail.com</a></td>
</tr>
<tr>
<td>Russ Cox</td>
<td><a href="mailto:rsc@golang.org">rsc@golang.org</a></td>
</tr>
<tr>
<td>Ryan Barrett</td>
<td><a href="mailto:ryanb@gmail.com">ryanb@gmail.com</a></td>
</tr>
<tr>
<td>Ryan Brown</td>
<td><a href="mailto:ribrdb@gmail.com">ribrdb@gmail.com</a></td>
</tr>
<tr>
<td>Ryan Hitchman</td>
<td><a href="mailto:hitchmanr@gmail.com">hitchmanr@gmail.com</a></td>
</tr>
<tr>
<td>Ryan Seys</td>
<td><a href="mailto:ryan@ryanseys.com">ryan@ryanseys.com</a></td>
</tr>
<tr>
<td>Ryan Slade</td>
<td><a href="mailto:ryanoslade@gmail.com">ryanoslade@gmail.com</a></td>
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<tr>
<td>S.alar Onur</td>
<td><a href="mailto:caglar@10ur.org">caglar@10ur.org</a></td>
</tr>
<tr>
<td>Sam Thorogood</td>
<td>&lt;<a href="mailto:sam.thorogood@gmail.com">sam.thorogood@gmail.com</a></td>
</tr>
<tr>
<td>Sameer Ajmani</td>
<td><a href="mailto:sameer@golang.org">sameer@golang.org</a></td>
</tr>
<tr>
<td>Sanjay Menakuru</td>
<td><a href="mailto:balasanjay@gmail.com">balasanjay@gmail.com</a></td>
</tr>
<tr>
<td>Scott Barron</td>
<td><a href="mailto:scott.barron@github.com">scott.barron@github.com</a></td>
</tr>
<tr>
<td>Scott Ferguson</td>
<td><a href="mailto:scottwferg@gmail.com">scottwferg@gmail.com</a></td>
</tr>
<tr>
<td>Scott Lawrence</td>
<td><a href="mailto:bytbox@gmail.com">bytbox@gmail.com</a></td>
</tr>
<tr>
<td>Scott Schwartz</td>
<td><a href="mailto:scotts@golang.org">scotts@golang.org</a></td>
</tr>
<tr>
<td>Sean Burford</td>
<td><a href="mailto:sburford@gmail.com">sburford@gmail.com</a></td>
</tr>
<tr>
<td>Sebastien Binet</td>
<td><a href="mailto:seb.binet@gmail.com">seb.binet@gmail.com</a></td>
</tr>
</tbody>
</table>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tiw <tw19881113@gmail.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Uriel Mangado <uriel@berlinblue.org>
Vadim Vygonets <unixdj@gmail.com>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vini Rajashekhara <vinutheraj@gmail.com>
Vish Subramanian <vish@google.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Nikishenko <vova616@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Wei Guangjing <vcc.163@gmail.com>
Will Norris <willnorris@google.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Josephson <wjosephson@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
Xia Bin <snyh@snyh.org>
Xing Xing <mikespook@gmail.com>
Yan Zou <yzou@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yongjian Xu <3dmaster@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yves.junqueira@gmail.com>
Ziad Hatahet <hatahet@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
<bronze1man@gmail.com>
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1.1456 boost 1_65_0

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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufi.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufi.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
NicolaI M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nckm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempf (krempf -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)
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Thorsten Ottosen (nesotto - at - cs.auc.dk)
Toon Knapen (toon dot knapen - at - fft.be)
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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)
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Dustin Kirkland <kirkland@byobu.org>
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Brad Fitzpatrick <bradfitz@golang.org>
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Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
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Alex A. Skinner
Andrew Tunnell-Jones
Ask Bjørn Hansen
Dave Cheney
Dusty Wilson
Marek Majkowski
Peter van Dijk
Omri Bahumi
Alex Sergeyev
Contributors
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<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samuel A. Falvo II</td>
<td><a href="mailto:sam.falvo@rackspace.com">sam.falvo@rackspace.com</a></td>
</tr>
<tr>
<td>Glen Campbell</td>
<td><a href="mailto:glen.campbell@rackspace.com">glen.campbell@rackspace.com</a></td>
</tr>
<tr>
<td>Jesse Noller</td>
<td><a href="mailto:jesse.noller@rackspace.com">jesse.noller@rackspace.com</a></td>
</tr>
<tr>
<td>Jon Perritt</td>
<td><a href="mailto:jon.perritt@rackspace.com">jon.perritt@rackspace.com</a></td>
</tr>
<tr>
<td>Ash Wilson</td>
<td><a href="mailto:ash.wilson@rackspace.com">ash.wilson@rackspace.com</a></td>
</tr>
<tr>
<td>Jamie Hannaford</td>
<td><a href="mailto:jamie.hannaford@rackspace.com">jamie.hannaford@rackspace.com</a></td>
</tr>
<tr>
<td>Don Schenck</td>
<td><a href="mailto:don.schenck@rackspace.com">don.schenck@rackspace.com</a></td>
</tr>
<tr>
<td>Joe Topjian</td>
<td><a href="mailto:joe@topjian.net">joe@topjian.net</a></td>
</tr>
</tbody>
</table>

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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]`) })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{
        License{
            Key: String("mit"),
            Name: String("MIT"),
            URL: String("https://api.github.com/licenses/mit"),
        }
    }
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}
```go
func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprintf(w, `{"key":"mit","name":"MIT"}
        })
    })

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get(""")
    testURLParseError(t, err)
}
```

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key *string `json:"key",omitempty`
    Name *string `json:"name",omitempty`
    URL *string `json:"url",omitempty`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty`
    Description    *string   `json:"description",omitempty`
    Category       *string   `json:"category",omitempty`
    Implementation *string   `json:"implementation",omitempty`
    Required       *[]string `json:"required",omitempty`
    Permitted      *[]string `json:"permitted",omitempty`
    Forbidden      *[]string `json:"forbidden",omitempty`
    Body           *string   `json:"body",omitempty`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    return []License{}, nil, err
}
licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
    return nil, resp, err
}
return *licenses, resp, err

// Fetch extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)
    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }
    return license, resp, err
}

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```
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**1.1486 pyasn1 0.4.8**

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```
ASN.1 library for Python
========================
```

Abstract Syntax Notation One (ASN.1) <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x> 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
-------

.. toctree::
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/example-use-case

Download & Install
------------------

.. toctree::
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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-------

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Getting help
-------------


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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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
--------

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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.
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:

```
>>> 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:

```
>>> 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

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You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/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](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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import "testing"
func TestIntegrationLicense(t *testing.T) {
license := License{Name: "the name", URL: "the url"}
const licenseJSON = `{"name":"the name","url":"the url"}`
const licenseYAML = "name: the name\nurl: the url\n"
assertSerializeJSON(t, license, licenseJSON)
assertSerializeYAML(t, license, licenseYAML)
assertParsesJSON(t, licenseJSON, license)
assertParsesYAML(t, licenseYAML, license)
}
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// limitations under the License.
package spec
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
Name string `json:"name,omitempty"`
URL string `json:"url,omitempty"`
}

1.1499 tomcat-jni 9.0.55

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

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DRuntime: Runtime Library for the D Programming Language

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Version 3.1, 31 March 2009

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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#
# Names should be added to this file as:
#   Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
Andrew Hunter <andrewhhunter@gmail.com>

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# Please keep the list sorted.
Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamshannon@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <selpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aeciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <phpprogger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed Wahed <oneofone@gmail.com>
Ahmet Alp Balkan <ahmetb@gmail.com>
Ahmet Soormally <ahmet@mangomm.co.uk>
Ahmy Yulrizka <yulrizka@gmail.com>
Ahsun Ahmed <ahmed.ahsun@gmail.com>
Aiden Scandella <ai@uber.com>
Ainar Garipov <gugl.zadolbal@gmail.com>
Aishraj Dahal <aishraj@users.noreply.github.com>
Akhil Indurti <contact@akhilindurti.com>
Akihiro Suda <suda.kyoto@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Al Cutter <al@google.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>
Dylan Waits <dylan@waits.io>
Edan Bedrik <3d4nb3@gmail.com>
Eddie Scholtz <escholtz@google.com>
Eden Li <eden.li@gmail.com>
Eduard Urbach <e.urbach@gmail.com>
Eduardo Ramalho <eduardo.ramalho@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Uggedal <eivind@uggedal.com>
Elbert Flick <eflick@gmail.com>
Eldar Rakhimberdin <ibeono@gmail.com>
Elena Grahovac <elena@grahovac.me>
Eli Bendersky <eliben@google.com>
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Emerson Lin <linyintor@gmail.com>
Emil Hessman <emil@hessman.se>
Emil Murasimov <murasimovemeel@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eno Compton <enocom@google.com>
Eoghan Sherry <ejsherry@gmail.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@gmail.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Erik Aigner <aigner.eklerik@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@gmail.com>
Erik Westrup <erik.westrup@gmail.com>
Erin Masatsugu <erin.masatsugu@gmail.com>
Ernest Chiang <ernest.chiang@htc.com>
Erwin Oegema <blablaechthema@hotmail.com>
Esko Luontola <esko.luontola@gmail.com>
Francesco Renzi <rentziass@gmail.com>
Francisco Claude <fclaude@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscosouza@gmail.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <fsomers@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <federickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Fredrik Enestad <fredrik.enestad@sountrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>
Frits van Bommel <fvbommel@gmail.com>
Fumitoshi Ukai <ukai@google.com>
G. Hussain Chinoy <ghchinoy@gmail.com>
Gaal Yahas <gaal@google.com>
Gabriel Arthr Pursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Guzman <gabe.guzman@gmail.com>
Gabriel Nelle <tehsphinx@web.de>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Russell <gabriel.russell@gmail.com>
Gareth Paul Jones <gpj@foursquare.com>
Garret Kelly <gdk@gmail.com>
Garrick Evans <garrick@gmail.com>
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>
Gary Elliott <garyelliott@gmail.com>
Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Gauthier Jolly <gauthier.jolly@gmail.com>
Geert-Johan Riemer <gjr19912@gmail.com>
Genevieve Luyt <genevieve.luyt@gmail.com>
Gengliang Wang <ltnwgl@gmail.com>
Geoff Berry <gberry.qdt@qualcommdatacenter.com>
Geoffroy Lorieux <lorieux.g@gmail.com>
Geon Kim <geon0250@gmail.com>
Georg Reinke <guelfey@gmail.com>
George Gkirtsou <ggirtsov@gmail.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gergely Brautigam <skarlos777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
Getulio Sanches <valentin2507@gmail.com>
Gianguido Sora` <g.sora4@gmail.com>
Gideon Jan-Wessel Redelinghuys <gijredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.utf8@gmail.com>
GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <aditzas@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cch123 (384546) <buaa.cch@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @frenkie (6499251) <email@rhab.de>
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @kazyshr (30496953) <kazyshr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <lgchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @micnncim (2133876) <micnncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @OlgaVIAPetrova (44112727) <OVIPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <53217283+utkarsh-extc@users.noreply.github.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <gленнб@гугл.com>
Glenn Lewis <gmlewis@gmail.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@google.com>
Greg Thelen <gthelen@google.com>
Greg Ward <greg@gerg.ca>
Grgoire Delattre <gregoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustog@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guillaume J. Charmes <guillaume@charmes.net>
Guobiao Mei <meiguobiao@gmail.com>
Guoliang Wang <iamwgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustovfranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwenn.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
HAMANO Tsukasa <hamano@osstech.co.jp>
Han-Wen Nienhuys <hanwen@google.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hallazzang@gmail.com>
Haosdent Huang <haosdent@gmail.com>
Harald Nordgren <haraldnordgren@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Hariharan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <moreno149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hasan Ozgan <hasan@ozgan.net>
Hauke Lffler <hloeffler@users.noreply.github.com>
Hvard Haugen <havard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyuheng@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Henry Wong <liushuai.wang@elastic.co>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@google.com>
Heschi Kreinick <heschi@google.com>
Hidetatsu Yaginuma <ygnmhdt@gmail.com>
Hilko Bengen <bengen@hilluzination.de>
Hiroaki Nakamura <hnakamur@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <tttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Horst Rutter <hrutter@gmail.com>
Hossein Sheikh Attar <hattar@google.com>
Hsin Tsao <tsao@google.com>
Hsin-Ho Yeh <yhh92u@gmail.com>
Hu Ke ping <hukeping@huawei.com>
Hugues Bruant <hugues.bruant@gmail.com>
Huy Le <huy.dinh.le.89@gmail.com>
Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>
Ian Cottrell <iancottrell@gmail.com>
Ian Davis <nospam@iandavis.com>
Ian Gudger <ian@loosescre.ws>
Ian Haken <ihaken@netflix.com>
Ian Kent <iankent85@gmail.com>
Ian Lance Taylor <iant@golang.org>
Ian Leue <ian@appboy.com>
Ian Zapolsky <ianzapolsky@gmail.com>
Ibrahim AshShohail <ibra.sho@gmail.com>
Icarus Sparry <golang@icarus.freeuk.com>
Iccha Sethi <icchasethi@gmail.com>
Idora Shinatose <idora.shinatose@gmail.com>
Igor Bernstein <igorbernstein@gmail.com>
Igor Dolzhikov <bluesriverz@gmail.com>
Igor Vashyst <ivashyst@gmail.com>
Igor Zhilianin <igor.zhilianin@gmail.com>
Illya Yalovyy <yalovoy@gmail.com>
Ilya Tocar <ilya.tocar@intel.com>
INADA Naoki <songofacandy@gmail.com>
Inanc Gumus <m@inanc.io>
Ingo Gottwald <in.gottwald@gmail.com>
Ingo Krabbe <ikrabbe.ask@gmail.com>
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>
Ioannis Georgoulas <geototti21@hotmail.com>
Irfan Sharif <irfanmahmoudsharif@gmail.com>
Irieda Noboru <irieda@gmail.com>
Isaac Ardis <isaac.ardis@gmail.com>
Isaac Wagner <ibw@isaacwagner.me>
Iskander Sharipov <iskander.sharipov@intel.com> <quasilyte@gmail.com>
Juraj Sukop <sukop@users.noreply.github.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <jgracenin@gmail.com>
Justin Li <git@justinli.net>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justyntemme@gmail.com>
Kelly Heller <pestophagous@gmail.com>
Kai Backman <kaib@golang.org>
Kai Dong <dokia2357@gmail.com>
Kai Trukenmlller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kamal Aboul-Hosn <abouyhosn@google.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukangustc@gmail.com>
Karan Dhiman <karanwhidhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karoly Negyesi <chx1975@gmail.com>
Karsten Khler <karsten.koehler95@gmail.com>
Karthik Nayak <karthik.188@gmail.com>
Kashav Madan <kshvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Katie Hockman <katie@golang.org>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>
Kay Zhu <kayzhu@google.com>
Kazuhiro Sera <seratch@gmail.com>
KB Sriram <kbsriram@gmail.com>
Keegan Carruthers-Smith <keegan.csmith@gmail.com>
Kei Son <hey.calmdown@gmail.com>
Keiji Yoshida <keiijyoshida.mail@gmail.com>
Keith Ball <inflatablewoman.mail@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <kr@xph.us>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Ken Friedenbach <kenliz@cruzio.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>
Kenichi Tsunokawa <kenichi.tsunokawa@gmail.com>
Kenji Kaneda <kenji.kaneda@gmail.com>
Kenji Yano <kenji.yano@gmail.com>
Kenneth Shaw <kenshaw@gmail.com>
Kenny Grant <kennygrant@gmail.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoenfling <martin.hoefling@gmx.de>
Martin Krichgauer <martinkr@gmail.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrman <mohrmann@tesco.net> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <anty.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Guly <mgulyas86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapliski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <sne@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Mike Appleby <mike@app.leby.org>
Mike Danese <mikedanese@google.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@google.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <nikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Mirko Hansen <baaazenn@gmail.com>
Miroslav Genov <mggenov@gmail.com>
Misty De Meo <mistydemeo@gmail.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajo36@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <mkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevsda@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammed Uluylol <uluylol0@gmail.com>
Muir Manders <muir@mnrs.us>
Mura Li <mura.li@castech.com.tw>
Mykhailo Lesyk <mikhail@lesyk.org>
Nan Deng <monnand@gmail.com>
Nao Yonashiro <owan.orisano@gmail.com>
Naoki Kanatani <sk12naoki@gmail.com>
Nate Wilkinson <nathanwilk7@gmail.com>
Nathan Cantelmo <n.cantelmo@gmail.com>
Nathan Caza <mastercactapus@gmail.com>
Nathan Humphreys <nkhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate.finch@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petr Jedin <petr.jediny@gmail.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <pdp@golang.org>
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Philip Brown <phil@bolthole.com>
Phil Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephani <phst@google.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellowpies.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
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Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
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Qais Patankar <qaisjp@gmail.com>
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1.1523 ruby-defaults 2.5.1

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### 1.1524 jackson 2.11.1

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```bash
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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tomb - support for clean goroutine termination in Go.

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- OSL-2.0
- OSL-2.1
- OSL-3.0
- QPL-1.0
- Sleepycat

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- git.apache.org/thrift.git
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- github.com/antlr/antlr4
- github.com/apache/thrift
- github.com/bazelbuild/buildtools
- github.com/bentry/speakeasy
- github.com/bmizerany/assert
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1.1529 python-requests 2.26.0

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1.1538 lightstep-lightstep-tracer-common-golang-gogo 0.0.0-20190605223551-bc2310a04743

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1.1542 naoina-go-stringutil 0.1.0

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1.1543 python 3.6.7-1~18.04

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.
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1.1549 scowl 2017.08.24-1

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The name files form the Census report is a government document which I don't think can be copyrighted.

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The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package,
and the 10,196 places list from the MWords package.

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Accent information was taken from UKACD.

My VARCON package was used to create the American, British, and Canadian word list.

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# 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>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* 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 <http://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 <http://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 <http://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

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* 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 <smtpakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse 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@smarkets.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

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
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package cloud

import (  

"bytes"
"io/ioutil"
"os"
"path/filepath"
"strings"
"testing"
)

var sentinels = []string{
"Copyright",
"Google",
`Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
  t.Parallel()
  skip := map[string]bool{
    // Automatically generated.
    "bigtable/cmd/cbt/cbtdoc.go": true,

    // BSD license, which is compatible, is embedded in the file.
    "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,

    "third_party/pkgsite/print_type.go": true,
    "third_party/pkgsite/synopsis.go": true,
  }
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if err != nil {
      return err
    }

    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
      return nil
    }

    if strings.HasSuffix(path, ".pb.go") {
      // .pb.go files are generated from the proto files.
      // .proto files must have license headers.
      return nil
    }

    if skip[path] {
      return nil
    }

    src, err := ioutil.ReadFile(path)
    if err != nil {
      return nil
    }

    src = src[:300] // Ensure all of the sentinel values are at the top of the file.
  })
// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
}
if err != nil {
t.Fatal(err)
}

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1.1556 mergo 0.3.7

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

### 1.1557 kr-pretty 0.1.0

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1.1558 cffi 1.15.0

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1.1559 pip 9.0.1
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1.1560 kubernetes-apimachinery 0.21.1

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1.1561 xxhash 2.1.1

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1.1562 is-arrayish 0.3.2

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<signature of Ty Coon>, 1 April 1989
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1.1565 protobuf 1.26.0

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1.1576 ostruct 0.1.0

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1.1578 cidranger 0.0.0-20180214081945-928b519e5268

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1.1579 kubernetes-api 0.21.0-rc.0

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

That's all there is to it!

1.1584 grafana 7.3.10
1.1584.1 Available under license :

```ini
+++
title = "License Expiration"
description = ""
keywords = ["grafana", "licensing"]
type = "docs"
[menu.docs]
parent = "enterprise"
weight = 8
+++

# License expiration

If your license has expired most of Grafana keeps working as normal. Some enterprise functionality stops or runs with reduced functionality and Grafana displays a banner informing the users that Grafana is running on an expired license. Your Grafana admin needs to upload a new license file to restore full functionality.

> Replace your license as soon as possible. Running Grafana Enterprise with an expired license is unsupported and can lead to unexpected consequences.

## Update your license

1. Locate your current `license.jwt` file. In a standard installation it is stored inside Grafana's data directory, which on a typical Linux installation is in `/var/lib/grafana/data`. This location might be overridden in the ini file [Configuration](https://grafana.com/docs/grafana/latest/administration/configuration/).

```ini
```
[enterprise]
license_path = /path/to/your/license.jwt
```

The configuration file's location may also be overridden by the `GF_ENTERPRISE_LICENSE_PATH` environment variable.

1. Log in to your [Grafana Cloud Account](https://grafana.com/login) and make sure you're in the correct organization in the dropdown at the top of the page.
1. Under the **Grafana Enterprise** section in the menu bar to the left, choose licenses and download the currently valid license with which you want to run Grafana. If you cannot see a valid license on Grafana.com, please contact your account manager at Grafana Labs to renew your subscription.
1. Replace the current `license.jwt`-file with the one you've just downloaded.
1. Restart Grafana.

```

## If your license expires

If your Grafana Enterprise license expires, the following functionality affected as follows.

### Data source permissions

Your current data source permissions will keep working as expected, but you'll be unable to add new data source permissions until the license has been renewed.

### LDAP authentication

- LDAP synchronization is not affected by an expired license.
- Enhanced LDAP debugging is unavailable.

### SAML authentication

SAML authentication is not affected by an expired license.

### Reporting

- You're unable to configure new reports or generate previews.
- Scheduled reports are not generated or sent.

### Enterprise plugins

Enterprise plugins might stop working.

### White labeling

The white labeling feature is turned off, meaning that any white labeling options will not have any effect.

### Usage insights

All the usage insights features are turned off, meaning that you won't be able to look at dashboard usage, presence
indicator or to use improved search. Grafana still collects usage data and you will have access to it as soon as you update your license.

### Vault integration

Vault integration is not affected by an expired license.

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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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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 $
1.1593 bsdmainutils 11.1.2ubuntu1
1.1593.1 Available under license:

This is a collection of programs from 4.4BSD-Lite that have not (yet) been re-written by FSF as GNU. It was constructed for inclusion in Debian Linux. As programs found here become available from GNU sources, they will be replaced.

This package was originally put together by Austin Donnelly <and1000@debian.org>, but is heavily based on bsdutils, originally put together by Ian Murdock <imurdock@gnu.ai.mit.edu>. Please report any problems or suggested additions or changes to Austin Donnelly.

Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files 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 much useful data on the various religious calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for almost two years, before Tollef Fog Heen <ttheen@debian.org> took over. The package is now maintained by Graham Wilson <bob@decoy.wox.org>.

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.1597 python3-markupsafe 1.0 1build1

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1.1599 logger 1.3.0

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1.1600 bin-links 2.3.0

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1.1601 x-sys 0.0.0-20190507053917-2953c62de483

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1.1604 gopkg.in/gorp.v1 1.7.2

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1.1605 python-defaults 3.6.7-1~18.04

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

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

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

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](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

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) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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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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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1.1610 go-cmp v0.4.0

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1.1611 shadow 4.5 1ubuntu2

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1.1614 minio-go 6.0.49

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 */

package minio

import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
// XMLNS string `xml:"xmlns,attr,omitempty"
XMLName xml.Name `xml:"
Status LegalHoldStatus `xml:"Status,omitempty"
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
  VersionID string
  Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
  VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const {
  // LegalHoldEnabled indicates legal hold is enabled
  LegalHoldEnabled LegalHoldStatus = "ON"

  // LegalHoldDisabled indicates legal hold is disabled
  LegalHoldDisabled LegalHoldStatus = "OFF"
}

func (r LegalHoldStatus) String() string {
  return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
  return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
  if status == nil {
    return nil, fmt.Errorf("Status not set")
  }

  //...
if !status.IsValid() {
    return nil, fmt.Errorf("invalid legal hold status `%v`", status)
}

legalHold := &objectLegalHold{
    Status: *status,
}
return legalHold, nil

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")

    if opts.VersionID != "" {
    }

    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }

    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }

    reqMetadata := requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentBody:      bytes.NewReader(lhData),
        contentLength:    int64(len(lhData)),
        contentMD5Base64: sumMD5Base64(lhData),
        contentSHA256Hex: sum256Hex(lhData),
// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(context.Background(), "PUT", reqMetadata)
def closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(bucketName, objectName string, opts GetObjectLegalHoldOptions) (*LegalHoldStatus, error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }

    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(context.Background(), "GET", requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
def closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {
        if resp.StatusCode != http.StatusOK {
            return nil, httpRespToErrorResponse(resp, bucketName, objectName)
        }
    }
    return nil, httpRespToErrorResponse(resp, bucketName, objectName)
lh := &objectLegalHold{}  
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {  
    return nil, err  
}  
return &lh.Status, nil  
}  

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Gocheck - A rich testing framework for Go

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1.1619 projectcalico-go-yaml-wrapper 0.0.0-20191112210931-090425220c54

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1.1620 color 1.9.0

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1.1621 nginx-core 1.14.0-0ubuntu1.9

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1.1623 rimraf 3.0.2

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1.1624 prometheus-alertmanager 0.18.0

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mgo - MongoDB driver for Go

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a

type License struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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

Preamble
========

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concluded that weaker conditions might promote sharing better.

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library. The threshold for this to be true is not precisely
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1.1638 go-msgpack 0.5.5

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1.1639 extsprintf 1.3.0

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1.1644 zlib 1.2.8

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.1653 kubernetes 18.20.0

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# Protocol::HTTP2
Provides a low-level implementation of the HTTP/2 protocol.


## Installation

Add this line to your application's Gemfile:

```ruby
```

And then execute:

```
$ bundle
```

Or install it yourself as:

```
$ gem install protocol-http2
```

## Usage

Here is a basic HTTP/2 client:

```ruby
```

Async do
  endpoint = Async::HTTP::Endpoint.parse("https://www.google.com/search?q=kittens")
  peer = endpoint.connect
  puts "Connected to #{peer.inspect}"

  # IO Buffering...
  stream = Async::IO::Stream.new(peer)

  framer = Protocol::HTTP2::Framer.new(stream)
  client = Protocol::HTTP2::Client.new(framer)

  puts "Sending connection preface..."
  client.send_connection_preface
```
puts "Creating stream..."
stream = client.create_stream

headers = [
    [:scheme, endpoint.scheme],
    [:method, "GET"],
    [:authority, "www.google.com"],
    [:path, endpoint.path],
    [:accept, "+/\*\*"]
]

puts "Sending request on stream id=#{stream.id} state=#{stream.state}..."
stream.send_headers(nil, headers, Protocol::HTTP2::END_STREAM)

puts "Waiting for response..."
$count = 0

def stream.process_headers(frame)
    headers = super
    puts "Got response headers: #{headers} (#{frame.end_stream?})"
end

def stream.receive_data(frame)
    data = super

    $count += data.scan(/kittens/).count

    puts "Got response data: #{data.bytesize}"
end

until stream.closed?
    frame = client.read_frame
end

puts "Got #$count kittens!"
puts "Closing client..."
client.close
end

## Contributing

1. Fork it
2. Create your feature branch ("git checkout -b my-new-feature")
3. Commit your changes ("git commit -am 'Add some feature'")
4. Push to the branch ("git push origin my-new-feature")
5. Create new Pull Request
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1.1668 protobuf 1.21.0

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Original Protocol Buffers design and implementation:
Sanjay Ghemawat <sanjay@google.com>
Jeff Dean <jeff@google.com>
Daniel Dulitz <daniel@google.com>
Craig Silverstein
Paul Haahr <haahr@google.com>
Corey Anderson <corin@google.com>
(and many others)

Proto2 C++ and Java primary author:
Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Java Nano primary authors:
Brian Duff <bduff@google.com>
Tom Chao <chaot@google.com>
Max Cai <maxtroy@google.com>
Ulas Kirazci <ulas@google.com>

Large code contributions:
Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:
Scott Bruce <sbruce@google.com>
Frank Yellin
Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambrose Feinstein <ambrose@google.com>
Documentation:
Lisa Carey <lcarey@google.com>

Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
   * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
   * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
   * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
   * VI syntax highlighting tweaks.
   * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
   * Heuristic detection of sub-messages when printing unknown fields in
text format.
Brian Atkinson <nairb774@gmail.com>
   * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
   * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
   * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>
   * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
   * MS Visual Studio error format option.
   * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
   * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
   * Fixed warnings about generated constructors not explicitly initializing
     all fields (only present with certain compiler settings).
   * Added generation of field number constants.
Wink Saville <wink@google.com>
   * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
   * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
   * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
   * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
   * HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
   * Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

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#
# Names should be added to this file as:
# Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
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<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aamir Khan</td>
<td><a href="mailto:syst3m.w0rm@gmail.com">syst3m.w0rm@gmail.com</a></td>
</tr>
<tr>
<td>Aaron Cannon</td>
<td><a href="mailto:cannya@fireantproductions.com">cannya@fireantproductions.com</a></td>
</tr>
<tr>
<td>Aaron France</td>
<td><a href="mailto:aaron.l.france@gmail.com">aaron.l.france@gmail.com</a></td>
</tr>
<tr>
<td>Aaron Jacobs</td>
<td><a href="mailto:jacobsa@google.com">jacobsa@google.com</a></td>
</tr>
<tr>
<td>Aaron Kemp</td>
<td><a href="mailto:kemp.aaron@gmail.com">kemp.aaron@gmail.com</a></td>
</tr>
<tr>
<td>Aaron Stein</td>
<td><a href="mailto:aaronestein12@gmail.com">aaronestein12@gmail.com</a></td>
</tr>
<tr>
<td>Aaron Torres</td>
<td><a href="mailto:tceoox@gmail.com">tceoox@gmail.com</a></td>
</tr>
<tr>
<td>Aaron Zinman</td>
<td><a href="mailto:aaron@azinman.com">aaron@azinman.com</a></td>
</tr>
<tr>
<td>Aarti Parikh</td>
<td><a href="mailto:aarti.parikh@gmail.com">aarti.parikh@gmail.com</a></td>
</tr>
<tr>
<td>Abdullah Al Maruf</td>
<td><a href="mailto:smymail.maruf@gmail.com">smymail.maruf@gmail.com</a></td>
</tr>
<tr>
<td>Abe Haskins</td>
<td><a href="mailto:abeisgreat@abeisgreat.com">abeisgreat@abeisgreat.com</a></td>
</tr>
<tr>
<td>Abhinav Gupta</td>
<td><a href="mailto:abhinav.g90@gmail.com">abhinav.g90@gmail.com</a></td>
</tr>
<tr>
<td>Adam Azarchs</td>
<td><a href="mailto:adam.azarchs@10xgenomics.com">adam.azarchs@10xgenomics.com</a></td>
</tr>
<tr>
<td>Adam Bender</td>
<td><a href="mailto:abender@google.com">abender@google.com</a></td>
</tr>
<tr>
<td>Adam Eijdenberg</td>
<td><a href="mailto:adam@continusec.com">adam@continusec.com</a></td>
</tr>
<tr>
<td>Adam Harvey</td>
<td><a href="mailto:aharvey@php.net">aharvey@php.net</a></td>
</tr>
<tr>
<td>Adam Kisala</td>
<td><a href="mailto:adam.kisala@gmail.com">adam.kisala@gmail.com</a></td>
</tr>
<tr>
<td>Adam Langley</td>
<td><a href="mailto:agl@golang.org">agl@golang.org</a></td>
</tr>
<tr>
<td>Adam Medzinski</td>
<td><a href="mailto:adam.medzinski@gmail.com">adam.medzinski@gmail.com</a></td>
</tr>
<tr>
<td>Adam Shannon</td>
<td><a href="mailto:adamkshannon@gmail.com">adamkshannon@gmail.com</a></td>
</tr>
<tr>
<td>Adam Sindelar</td>
<td><a href="mailto:adams@google.com">adams@google.com</a></td>
</tr>
<tr>
<td>Adam Thomason</td>
<td><a href="mailto:aathomason@gmail.com">aathomason@gmail.com</a></td>
</tr>
<tr>
<td>Adam Woodbeck</td>
<td><a href="mailto:adam@woodbeck.net">adam@woodbeck.net</a></td>
</tr>
<tr>
<td>Adarsh Ravichandran</td>
<td><a href="mailto:adarshravichandran91@gmail.com">adarshravichandran91@gmail.com</a></td>
</tr>
<tr>
<td>Aditya Mukerjee</td>
<td><a href="mailto:dev@chimeracoder.net">dev@chimeracoder.net</a></td>
</tr>
<tr>
<td>Adrian Hesketh</td>
<td><a href="mailto:adrianhesketh@hushmail.com">adrianhesketh@hushmail.com</a></td>
</tr>
<tr>
<td>Adrian Nos</td>
<td><a href="mailto:nos.adrian@gmail.com">nos.adrian@gmail.com</a></td>
</tr>
<tr>
<td>Adrian O'Grady</td>
<td><a href="mailto:elpollouk@gmail.com">elpollouk@gmail.com</a></td>
</tr>
<tr>
<td>Adrien Bustany</td>
<td><a href="mailto:adrien-xx-google@bustany.org">adrien-xx-google@bustany.org</a></td>
</tr>
<tr>
<td>Adrien Petel</td>
<td><a href="mailto:peteladrien@gmail.com">peteladrien@gmail.com</a></td>
</tr>
<tr>
<td>Acio Junior</td>
<td><a href="mailto:aeciodantasjunior@gmail.com">aeciodantasjunior@gmail.com</a></td>
</tr>
<tr>
<td>Aeneas Rekkas (arekkas)</td>
<td><a href="mailto:aeneas@ory.am">aeneas@ory.am</a></td>
</tr>
<tr>
<td>Afanasev Stanislav</td>
<td><a href="mailto:sphpprogger@gmail.com">sphpprogger@gmail.com</a></td>
</tr>
<tr>
<td>Agis Anastasopoulos</td>
<td><a href="mailto:agis.anast@gmail.com">agis.anast@gmail.com</a></td>
</tr>
<tr>
<td>Agniva De Sarker</td>
<td><a href="mailto:aagnivade@yahoo.co.in">aagnivade@yahoo.co.in</a></td>
</tr>
<tr>
<td>Ahmed Wahed</td>
<td><a href="mailto:oneofone@gmail.com">oneofone@gmail.com</a></td>
</tr>
<tr>
<td>Ahmet Alp Balkan</td>
<td><a href="mailto:ahmetb@google.com">ahmetb@google.com</a></td>
</tr>
<tr>
<td>Ahmet Soormally</td>
<td><a href="mailto:ahmet@mangomm.co.uk">ahmet@mangomm.co.uk</a></td>
</tr>
<tr>
<td>Ahmy Yulrizka</td>
<td><a href="mailto:yulrizka@gmail.com">yulrizka@gmail.com</a></td>
</tr>
<tr>
<td>Ahsun Ahmed</td>
<td><a href="mailto:ahmed.ahsun@gmail.com">ahmed.ahsun@gmail.com</a></td>
</tr>
<tr>
<td>Aiden Scandella</td>
<td><a href="mailto:aai@uber.com">aai@uber.com</a></td>
</tr>
<tr>
<td>Ainar Garipov</td>
<td><a href="mailto:gugl.zadolbal@gmail.com">gugl.zadolbal@gmail.com</a></td>
</tr>
<tr>
<td>Aishrajoy Dahal</td>
<td><a href="mailto:aishrajoy@users.noreply.github.com">aishrajoy@users.noreply.github.com</a></td>
</tr>
<tr>
<td>Akhil Indurthi</td>
<td><a href="mailto:contact@akhilindurthi.com">contact@akhilindurthi.com</a></td>
</tr>
<tr>
<td>Akihiro Suda</td>
<td><a href="mailto:suda.kyoto@gmail.com">suda.kyoto@gmail.com</a></td>
</tr>
<tr>
<td>Akshat Kumar</td>
<td><a href="mailto:seed@mail.nanosouffle.net">seed@mail.nanosouffle.net</a></td>
</tr>
<tr>
<td>Al Cutter</td>
<td><a href="mailto:al@google.com">al@google.com</a></td>
</tr>
<tr>
<td>Alan Braithwaite</td>
<td><a href="mailto:alan@ipaddr.org">alan@ipaddr.org</a></td>
</tr>
</tbody>
</table>
Andrew Bonventre <andybons@chromium.org>
Andrew Braunstein <awbraunstein@gmail.com>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt <andrew.ekstedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@google.com>
Andrew Lutomirski <andy@luto.us>
Andrew Pilloud <andrewpilloud@igneoussystems.com>
Andrew Pogrebnov <absourd.noise@gmail.com>
Andrew Poydence <apoydence@pivotal.io>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Striblehull <ads@wompom.org>
Andrew Szeto <andrew@jabagwee.com>
Andrew Todd <andrew.todd@wework.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrew Z Allen <me@andrewzallen.com>
Andrey Mirtchovski <mirtchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andrii Lytvynov <lytvynov.a.v@gmail.com>
Andrzzej eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Walker <walkeraj@gmail.com>
Andzej Maciusovic <andzej.maciusovic@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Anit Gandhi <anitgandhi@gmail.com>
Ankit Goyal <ankit3goyal@gmail.com>
Anmol Sethi <anmol@aubble.com>
Anschel Schaffer-Cohen <anschelsc@gmail.com>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony.canino1@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony Fok <foka@debian.org>
Anthony Martin <ality@pbrane.org>
Anthony Sottile <asottile@umich.edu>
Christian Pellegrin <chri@evolware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Koch <chrisko@google.com>
Christopher Nielsen <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@gmail.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clément Chigot <clement.chigot@atos.net>
Clement Skau <clementskau@gmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <crranger@google.com>
Colin Arnett <colin@urandom.co.uk>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Nelson <colnnelson@gmail.com>
Colin Rice <clr@gmail.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Conrado Gouvea <conradopl@gmail.com>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Corey Thomasson <cthom.lists@gmail.com>
Cosmos Nicolaou <cnicolao@gmail.com>
Cosmin Chirvasuta <ctin@gmail.com>
Craig Citro <craigcitro@gmail.com>
Cristian Staretu <unclejacksons@gmail.com>
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>
Cyrill Schumacher <cyrill@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <42@dmathieu.com>
Damien Neil <dneil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@google.com>
Dan Jacques <dnj@google.com>
Dan Johnson <computerdruid@google.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Dan de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingramds@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Langner <s8572327@gmail.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Lublin <daniel@lublin.se>
Daniel Mart <mvdan@mvdan.cc>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@google.com>
Daniel Nephin <dnephin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppey.co>
Daniela Petruzalek <daniela.petrzulek@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymond <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darren Grant <darren.e.grant@gmail.com>
Darren McCleary <darren.mcc@gmail.com>
Darshan Parajuli <parajulidarshan@gmail.com>
Datong Sun <dndx@idndx.com>
Dave Borowitz <davorowitz@gmail.com>
Dave Bort <dbrt@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Russell <forfun.csake@gmail.com>
David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@google.com>
David Brophy <dave@brophy.uk>
David Brogin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
Dev Zhoujun <dev.zhoujun@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhaivat Pandit <dhaivatpandit@gmail.com>
Dhananjay Nakrani <dhananjayn@gmail.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
Dhruvdutt Jadhav <dhruvdutt.jadhav@gmail.com>
Di Xiao <dixiao@gmail.com>
Didier Spezia <didier.06@gmail.com>
Diego Siqueira <diego9889@gmail.com>
Dieter Plaetinck <dieter@raintank.io>
Dimitri Sokolyuk <sokolyuk@gmail.com>
Dimitri Tcaciuc <dtcaciuc@gmail.com>
Dina Garmash <dgrmsh@gmail.com>
Diogo Pinela <diogoid7400@gmail.com>
Dirk Gadsden <dirk@esherido.com>
Diwaker Gupta <diwakergupta@gmail.com>
Dmitri Goutnik <dgoutnik@gmail.com>
Dmitri Popov <operator@cv.dp-net.com>
Dmitri Shuralyov <dmitshur@golang.org> <dmitri@shuralyov.com>
Dmitriy Cherchenko <dcherchenko@gmail.com>
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>
Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com>
Dmitriy Vuyukov <dvyukov@gmail.com>
Dmitry Chestnykh <dchest@gmail.com>
Dmitry Doroginin <dégorginin@gmail.com>
Dmitry Motl <dmitry.mottl@gmail.com>
Dmitry Neverov <dmitry.neverov@gmail.com>
Dmitry Savintsev <dsavints@gmail.com>
Dmitry Yakunin <nonamezeil@gmail.com>
Domen Ipavec <domen@ipavec.net>
Dominic Green <dominic.green1@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Don Byington <don@dbyington.com>
Donald Huang <don.hcd@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@gmail.com>
Doug Fawley <dfawley@google.com>
Douglas Danger Manley <douglas.danger.manley@gmail.com>
Drew Flower <drewvanstone@gmail.com>
Drew Hintz <adhintz@google.com>
Duncan Holm <mail@frou.org>
Dustin Carlino <dcarlino@gmail.com>
Dustin Herbison <djherbis@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.utf8@gmail.com>
GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <aditia8@gmail.com>
GitHub User @bontequerio (2674999) <bontequerio@gmail.com>
GitHub User @cch123 (384546) <buua.cch@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @frennkie (6499251) <mail@rhab.de>
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @kazyshr (30496953) <kazyshr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @micncnim (21333876) <micncnim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @OlgaVLPetrova (44112727) <OVPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @saifarunreddy (21041941) <saifarunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <53217283+utkarsh-extc@users.noreply.github.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <ggp493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
James Whitehead <jnwhiteh@gmail.com>
Jamie Beverly <jamie.r.bevery@gmail.com>
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>
Jamie Kerr <jkerr113@googlemail.com>
Jamie Liu <ja.meliu@gmail.com>
Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Lehnardt <jan@apache.org>
Jan Mercel <0xjnml@gmail.com> <befelemepeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Pilzer <jan.pilzer@gmx.de>
Jan Steinke <jan.steinke@gmail.com>
Jan Ziai <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jannis Andrija Schnitzer <jannis@schnitzer.im>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason A. Donenfeld <Jason@zx2c4.com>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jbuberel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delpontej@gmail.com>
Jason Hall <jasonhall@gmail.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wangsadinata <jwangssadinata@gmail.com>
Javier Kohen <jkohen@google.com>
Javier Revillas <jrevillas@massivedynamic.io>
Javier Segura <javism@gmail.com>
Jay Conrod <jayconrod@gmail.com>
Jay Taylor <outtatime@gmail.com>
Jay Weisskopf <jay@jayschwa.net>
Jean de Klerk <deklerk@gmail.com>
Jean-Andr Santoni <jean.andre.santoni@gmail.com>
Jean-Francois Bustarret <jf@bustarret.com>
Jean-Francois Cantin <jfcantin@gmail.com>
Jean-Marc Eurin <jmeurin@orange.com>
Jean-Nicolas Moal <jn.moal@gmail.com>
Jed Denlea <jed@fastly.com>
Jeet Parekh <jeetparekh96@gmail.com>
Jeevanandam M <jeeva@myjeeva.com>
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Ketan Parmar <ketanbparmar@gmail.com>
Kevin Ballard <kevin@sb.org>
Kevin Burke <kev@inburke.com>
Kevin Gillette <extemporalgenome@gmail.com>
Kevin Kirsche <kev.kirsche@gmail.com>
Kevin Klues <klueska@gmail.com> <klueska@google.com>
Kevin Malachowski <chowski@google.com>
Kevin Ruffin <kruffin@gmail.com>
Kevin Vu <kevin.m.vu@gmail.com>
Kevin Zita <bleedgreenandgold@gmail.com>
Kieran Colford <kieran@kcolford.com>
Kim Shrier <kshrier@racktopsystems.com>
Kim Yongbin <kybinz@gmail.com>
Kir Kolyshkin <kolyshkin@gmail.com>
Kirill Motkov <Motkov.Kirill@gmail.com>
Kirill Smelkov <kirr@nexedi.com>
Kirk Han <kirk91.han@gmail.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
Klaus Post <klauserg@gmail.com>
Kodie Goodwin <kodiegoodwin@gmail.com>
Koichi Shiraiishi <zc3e.io@gmail.com>
Koki Ide <niconegoto@yahoo.co.jp>
Komu Wairagu <komuw05@gmail.com>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Kris Kwiatkowski <kris@cloudfallre.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@google.com>
Kristopher Watts <traetox@gmail.com>
Kshitij Saraogi <kshitjsaraogi@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrylo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lannm@google.com>
Lanre Adelowo <yo@lanre.wtf>
Michael Henderson <mdhender@users.noreply.github.com>
Michael Hendricks <michael@ndrix.org>
Michael Hoisie <hoisie@gmail.com>
Michael Hudson-Doyle <michael.hudson@linaro.org>
Michael Kasch <michael.kasch@gmail.com>
Michael Kufl <golang@c.michael-kaefl.de>
Michael Kelly <mjk@google.com>
Michael Lewis <mikelikespie@gmail.com>
Michael MacInnis <Michael.P.MacInnis@gmail.com>
Michael Marineau <michael.marineau@coreos.com>
Michael Matloob <matloob@gmail.com>
Michael McConville <momconville@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Michael McLoughlin <mmcloughlin@gmail.com>
Michael Munday <mike.munday@ibm.com>
Michael Pearson <miperson@gmail.com>
Michael Piatek <piatek@gmail.com>
Michael Pratt <mpratt@gmail.com>
Michael Schaller <michael@schaller.de>
Michael Schurter <michael.schurter@gmail.com>
Michael Shields <mshields@gmail.com>
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@gmail.com>
Michael Steinert <mike.steinert@gmail.com>
Michael T. Jones <mtj@gmail.com> <michael.jones@gmail.com>
Michael Teichgraeber <mteichgraeber@gmx.de> <mt4swm@gmail.com>
Michael Traver <mtraver@gmail.com>
Michael Vetter <g.bluehut@gmail.com>
Michael Vogt <mvo@ubuntu.com>
Michal Bohuslavek <mbohuslavek@gmail.com>
Michal Cierniak <cierniak@gmail.com>
Micha Derkacz <ziutek@inetsa.pl>
Michal Franc <lam.michal.franca@gmail.com>
Michal Pristas <michal.pristas@gmail.com>
Michal Rostecki <mrostecki@suse.de>
Michalis Kargakis <michaliskargakis@gmail.com>
Michel Lespinasse <walken@gmail.com>
Mickael Kerjean <mickael.kerjean@gmail.com>
Mickey Reiss <mickeyreiss@gmail.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Mendez <stxmenendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todormihai@gmail.com>
Mihail Minev <minaev.mike@gmail.com>
Mikael Tillenius <miktii42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.levby.org>
Nathan Youngman <git@nathany.com>
Nathan(yinian) Hu <nathanhu@google.com>
Nathaniel Cook <nvcook42@gmail.com>
Naveen Kumar Sangi <naveenkumarsangi@protonmail.com>
Neelish Chandola <neelesh.c98@gmail.com>
Neil Lyons <nwlyons@googlemail.com>
Neuman Vong <neuman.vong@gmail.com>
Neven Sajko <nsajko@gmail.com>
Nevis Bartolomeo <nevis.bartolomeo@gmail.com>
Niall Sheridan <nsheridan@gmail.com>
Nic Day <nic.day@me.com>
Nicholas Katsaros <nick@nickkatsaros.com>
Nicholas Maniscalco <nicholas@maniscalco.com>
Nicholas Ng <nickng@nickng.io>
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Nick Anthony < Liberatys@outlook.com>
Nick Cooper <nmvc@google.com>
Nick Craig-Wood <nick@ craig-wood.com> <nickcw@gmail.com>
Nick Harper <nharper@gmail.com>
Nick Kubala <nkubala@gmail.com>
Nick Leli <nicholasleli@gmail.com>
Nick Miyake <nmiyake@users.noreply.github.com>
Nick Patavalis <nick.patavalis@gmail.com>
Nick Petroni <npetroni@cs.umd.edu>
Nick Robinson <nr Robinson13@gmail.com>
Nick Smolin <nick27surgut@gmail.com>
Nicolas BRULEZ <n.brulez@gmail.com>
Nicolas Kaiser <nikai@nikai.net>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>
Niek Sanders <niek.sanders@gmail.com>
Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nik Nyby <nnyby@columbia.edu>
Nikhil Benesch <nikhil.benesch@gmail.com>
Nikita Kryuchkov <nkryuchkov10@gmail.com>
Niklas Schnelle <niklas.schnelle@gmail.com>
Niko Dziemba <niko@dziemba.com>
Nikolay Turpitko <nikolay@turpitko.com>
Nils Larsgrd <nilsmagnus@gmail.com>
Nir Soffer <nirsof@gmail.com>
Niranjana Godbole <niranjana8192@gmail.com>
Nishanth Shankuham <nishanth.gerrard@gmail.com>
Noah Campbell <noahcampbell@gmail.com>
Noble Johnson <noblepoly@gmail.com>
Sam Boyer <tech@samboyer.org>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@gmail.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic@google.com>
Sami Pnknen <sami.ponkanen@gmail.com>
Samuel Kelemen <SCKelemen@users.noreply.github.com>
Samuel Tan <samulttan@google.com>
Samuele Pedroni <pedronis@lucediurna.net>
Sander van Harmelen <sander@vanharmelen.nl>
Sanjay Menakuru <balasanjay@gmail.com>
Santhosh Kumar Tekuri <santhosh.tekuri@gmail.com>
Sarah Adams <shadams@google.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@google.com>
Sasha Sobol <sasha@scaledinference.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk11@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@google.com>
Sean Chen <ooohcode@gmail.com>
Sean Chittenden <seane@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sebastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergei Zagurskii <gvozdoder@gmail.com>
Sergey 'Snake' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synesis.ru>
Sergey Frolov <sfrolov@google.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shaozhen Ding <dsz0111@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
Shawn Elliott <selliott@microsoft.com>
Shawn Ledbetter <sledbetter@google.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengjing Zhu <zsj950618@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivani Singhal <shivani.singhal2804@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shubham Sharma <shubham.sha12@gmail.com>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@gmail.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@gmail.com>
Sridhar Venkatakrishnan <sridhar@ladoo.net>
StalkR <stalkr@stalkr.net>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baebler <sbaebler@outbrain.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@google.com>
Weerasak Chongnguluam <singpor@gmail.com>
Wi Cngru <crrv.mail@gmail.com>
Wei Fu <sfhuwei@163.com>
Wei Guanqing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Wei Xikai <xykwei@gmail.com>
Weichao Tang <tevic.tt@gmail.com>
Wembly G. Leach, Jr <wembley.gl@gmail.com>
Wenlei (Frank) He <whhe@google.com>
Wenzel Lowe <lowewenzel@gmail.com>
Wil Selwood <wselwood@gmail.com>
Wilfried Teiken <wtteiken@gmail.com>
Will Beason <willbeason@gmail.com>
Will Chan <willchan@gmail.com>
Will Faught <will.faught@gmail.com>
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>
Will Norris <willnorris@gmail.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Chang <mr.williamchang@gmail.com>
William Josephson <wjosephson@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xxy23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xing Xing <mikespook@gmail.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicelias.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzts@desire.sh>
Yan Zou <yzou@gmail.com>
Yang Tian <linuxty@gmail.com>
Yann Hodique <yhodique@gmail.com>
Yann Kerherv <yann.kerherve@gmail.com>
Yann Salan <yannsalaun1@gmail.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@gmail.com>
Yasha Bubnov <girokompass@gmail.com>
Yasser Abdolmaleki <yasser@yasser.ca>
Yasuharu Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yasuyuki Oka <yasuyk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
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fields:
  site: string
  author: root
```

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import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.
        // Find license
        for _, sentinel := range sentinels {
            // ...
        }
    })
}
if !bytes.Contains(src, []byte(sentinel)) {
    t.Errorf("%v: license header not present. want %q", path, sentinel)
    return nil
}

return nil
})

if err != nil {
    t.Fatal(err)
}

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1.1706 go-syslog 1.0.0

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1.1708 google-api-go-client 0.8.0

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1.1710 pyyaml 6.0

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1.1711 libaio 0.3.112

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1.1730 python-argh 0.26.2-1

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1.1731 apr 1.6.3 2

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C. Copyright (C) 2000 by Martin Pool <mbp@humbug.org.au>

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1.1732 golang-org-x-time v0.0.0-20190308202827-9d24e82272b4

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1.1735 dropwizard-request-logging 1.3.29

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</tr>
<tr>
<td>Alberto Garcia Hierro</td>
<td><a href="mailto:alberto@garciahierro.com">alberto@garciahierro.com</a></td>
</tr>
<tr>
<td>Aleksa Sarai</td>
<td><a href="mailto:cyphar@cyphar.com">cyphar@cyphar.com</a></td>
</tr>
<tr>
<td>Aleksandar Dezlin</td>
<td><a href="mailto:dezelin@gmail.com">dezelin@gmail.com</a></td>
</tr>
<tr>
<td>Aleksandr Lukinykh</td>
<td><a href="mailto:a.lukinykh@xsolla.com">a.lukinykh@xsolla.com</a></td>
</tr>
<tr>
<td>Aleksandr Razumov</td>
<td><a href="mailto:ar@cydev.ru">ar@cydev.ru</a></td>
</tr>
<tr>
<td>Alekseev Artem</td>
<td><a href="mailto:a.artem060@gmail.com">a.artem060@gmail.com</a></td>
</tr>
<tr>
<td>Alessandro Arzilli</td>
<td><a href="mailto:alessandro.arzilli@gmail.com">alessandro.arzilli@gmail.com</a></td>
</tr>
<tr>
<td>Alessandro Baffa</td>
<td><a href="mailto:alessandro.baffa@gmail.com">alessandro.baffa@gmail.com</a></td>
</tr>
<tr>
<td>Alex A Skinner</td>
<td><a href="mailto:alex@1x.lc">alex@1x.lc</a></td>
</tr>
<tr>
<td>Alex Brainman</td>
<td><a href="mailto:alex.brainman@gmail.com">alex.brainman@gmail.com</a></td>
</tr>
<tr>
<td>Alex Bramley</td>
<td><a href="mailto:abramley@google.com">abramley@google.com</a></td>
</tr>
<tr>
<td>Alex Browne</td>
<td><a href="mailto:stephenalexbrowne@gmail.com">stephenalexbrowne@gmail.com</a></td>
</tr>
<tr>
<td>Alex Carol</td>
<td><a href="mailto:alex.carol.c@gmail.com">alex.carol.c@gmail.com</a></td>
</tr>
<tr>
<td>Alex Jin</td>
<td><a href="mailto:toalexjin@gmail.com">toalexjin@gmail.com</a></td>
</tr>
<tr>
<td>Alex Kohler</td>
<td><a href="mailto:alexjohnkohler@gmail.com">alexjohnkohler@gmail.com</a></td>
</tr>
<tr>
<td>Alex Myasoedov</td>
<td><a href="mailto:msoedov@gmail.com">msoedov@gmail.com</a></td>
</tr>
<tr>
<td>Alex Plugaru</td>
<td><a href="mailto:alex@plugaru.org">alex@plugaru.org</a></td>
</tr>
<tr>
<td>Alex Schroeder</td>
<td><a href="mailto:alex@gnu.org">alex@gnu.org</a></td>
</tr>
<tr>
<td>Alex Sergeyev</td>
<td><a href="mailto:abc@alexsereyev.com">abc@alexsereyev.com</a></td>
</tr>
<tr>
<td>Alex Vaghin</td>
<td><a href="mailto:crhyme@gmail.com">crhyme@gmail.com</a></td>
</tr>
<tr>
<td>Alexander Demakin</td>
<td><a href="mailto:alexander.demakin@gmail.com">alexander.demakin@gmail.com</a></td>
</tr>
<tr>
<td>Alexander Dring</td>
<td><a href="mailto:email@alex.ch">email@alex.ch</a></td>
</tr>
<tr>
<td>Alexander F Rdseth</td>
<td><a href="mailto:alexander.rodseth@appeartv.com">alexander.rodseth@appeartv.com</a></td>
</tr>
<tr>
<td>Alexander Guz</td>
<td><a href="mailto:kalimatas@gmail.com">kalimatas@gmail.com</a></td>
</tr>
<tr>
<td>Alexander Kauer</td>
<td><a href="mailto:alexander@affine.space">alexander@affine.space</a></td>
</tr>
<tr>
<td>Alexander Kucherenko</td>
<td><a href="mailto:alxkchr@gmail.com">alxkchr@gmail.com</a></td>
</tr>
</tbody>
</table>
Casey Callendrello <squeed@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <cnicutar@google.com>
Catalin Patulea <catalin@google.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
Chad Rosier <mrosier.qdt@qualcommdatcenter.com>
ChaiShushan <chaishushan@gmail.com>
Channing Kimble-Brown <channing@golang.org>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <eldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Cherry Zhang <cherryyz@google.com>
Chew Choon Keat <choonkeat@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@google.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrsmith@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christian Pellegrin <chri@eolvware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Koch <chrisko@google.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@google.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <elsung@gmail.com> <el_sung@htc.com>
Clment Chigot <clement.chigot@atos.net>
Clement Skau <clementskaugmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Nelson <colnelson@google.com>
Colin Rice <clr@google.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Conrado Gouvea <conrado@gouvea.com>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Corey Thomasson <cthom.lists@gmail.com>
Cosmos Nicolaou <cnicolau@google.com>
Costin Chirvasuta <ctin@gmail.com>
Craig Citro <craigcitro@gmail.com>
Cristian Stareu <unclejacks@gmail.com>
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>
Cyrill Schumacher <cyrill@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespau <damien.lespau@gmail.com> <damien.lespau@intel.com>
Damien Mathieu <42@mathieu.com>
Damien Neil <dneil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@google.com>
Dan Jacques <dnj@gmail.com>
Dan Johnson <computerdruid@google.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Danil de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Emil Mursalimov <mursalimovemeel@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eno Compton <enocom@google.com>
Eoghan Sherry <ejssherry@gmail.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@google.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Erik Aigner <aigner.eric@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@gmail.com>
Erik Westrup <erik.westrup@gmail.com>
Erin Masatsugu <erin.masatsugu@gmail.com>
Ernest Chiang <ernest_chiang@htc.com>
Erwin Oegema <blablaechthema@hotmail.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@google.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <euank@euank.com>
Eugene Kalinin <e.v.kalinin@gmail.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@google.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Evan Klitzke <evan@eklitzke.org>
Evan Kroske <evankroske@google.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Polyakov <zbr@ioremap.net>
Ewan Chou <coocood@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedff@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fshahriar@gmail.com>
Federico Bond <federicobond@gmail.com>
Federico Simoncelli <fsimonce@redhat.com>
Fedor Indutny <fedor@indutny.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Geisendrfer <haimuiba@gmail.com>
Felix Kollmann <fk@konsorten.de>
Filip Gruszczyski <gruszczys@gmail.com>
Filip Haglund <dathier@users.noreply.github.com>
Filip Stanis <fstanis@google.com>
Filippo Valsorda <filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Forster <octo.google.com>
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@gmail.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francisco Claude <fclaude@recodecl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscossouza@gmail.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <f@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>
Frits van Bommel <fvbommel@gmail.com>
Fumitoshi Ukai <ukai@gmail.com>
G. Hussain Chinoy <ghchinoy@gmail.com>
Gaal Yahas <gaal@gmail.com>
Gabriel Arthr Ptursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Russell <gabriel.russell@gmail.com>
Gareth Paul Jones <gpj@foursquare.com>
Garret Kelly <gdk@gmail.com>
Garrick Evans <garrick@gmail.com>
Isaac Wagner <ibw@isaacwagner.me>
Iskander Sharipov <iskander.sharipov@intel.com> <quasilyte@gmail.com>
Issac Trotts <issactrotts@google.com>
Ivan Babrou <ivan@cloudflare.com>
Ivan Bertona <ivan.bertona@gmail.com>
Ivan Krasin <krasin@golang.org>
Ivan Kutuzov <arbxr@gmail.com>
Ivan Markin <sw@nogoest.net>
Ivan Moscoso <moscoso@gmail.com>
Ivan Sharavuev <shpiwan@gmail.com>
Ivan Ukhov <ivan.ukhov@gmail.com>
Ivy Evans <ivyevans.net>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcudogan@gmail.com>
Jack Britton <jackxbritton@gmail.com>
Jack Lindamood <jlindamo@justin.tv>
Jacob Baskin <jbakin@gmail.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jae Kwon <jae@tendermint.com>
Jake B <doogie1012@gmail.com>
Jakob Borg <jakob@nym.se>
Jakob Weisblat <jakobw@mit.edu>
Jakub ajka <jaajka@redhat.com>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
James Aguilar <jaguilar@gmail.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@gmail.com>
James Clarke <jrtc27@jrtc27.com>
James Cowgill <James.Cowgill@imgtec.com>
James Craig Burley <james-github@burleyarch.com>
James David Chalfant <james.chalfant@gmail.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Hartig <fastest963@gmail.com>
James Lawrence <jlljatone@gmail.com>
James Meneghello <rawrz0r@gmail.com>
James Myers <jmyers9@gmail.com>
James Neve <jamesoneve@gmail.com>
James P. Cooper <jamespcooper@gmail.com>
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
James Sweet <james.sweet88@googlemail.com>
James Toy <nil@opensesame.st>
James Treanor <jtreenor3@gmail.com>
James Tucker <raggi@google.com>
James Whitehead <jnwhiteh@gmail.com>
Jamie Beverly <jamie.r.bevery@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeffrey H <jeffreyh192@gmail.com>
Jelte Fennema <github-tech@jeltef.nl>
Jens Frederich <jfrederich@gmail.com>
Jeremiah Harmsen <jeremiah@google.com>
Jeremy Banks <__@jeremy.ca>
Jeremy Canady <jcanady@gmail.com>
Jeremy Jackins <jeremyjacks@gmail.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jeroen Bobbeldijk <jerob92@gmail.com>
Jerrin Shaji George <jerrinsg@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jesse Szwedko <jesse.szwedko@gmail.com>
Jess Espino <jespinog@gmail.com>
Jianing Yu <jnyu@google.com>
Jianqiao Li <jianqiaoli@google.com>
Jihyun Yu <vyjh0502@gmail.com>
Jim Cote <jfcote87@gmail.com>
Jim Kingdon <jim@bolt.me>
Jim McGrath <jimmc2@gmail.com>
Jim Minter <jminter@redhat.com>
Jimmy Frasche <soapboxcicero@gmail.com>
Jimmy Zelinskie <jimmyzelinskie@gmail.com>
Jin-wook Jeong <jeweljar@hanmail.net>
Jingcheng Zhang <diogin@gmail.com>
Jingguo Yao <yaojingguo@gmail.com>
Jiong Du <londevil@gmail.com>
Jirka Dank <dnk@mail.muni.cz>
Jiulong Wang <jiulongw@gmail.com>
Joakim Sernbrant <serbaut@gmail.com>
Joe Bowbeer <joe.bowbeer@gmail.com>
Joe Cortopassi <joe@joecortopassi.com>
Joe Farrell <joe2farrell@gmail.com>
Joe Harrison <joehazzers@gmail.com>
Joe Henke <joed.henke@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Joe Poirier <jdpoirier@gmail.com>
Joe Richey <joerichey@google.com>
Joe Shaw <joe@joeshaw.org>
Joe Sylve <joe.sylve@gmail.com>
Joe Tsai <joetsai@digital-static.net>
Joel Sing <joel@sing.id.au> <jsing@google.com>
Jol Stemmer <jstemmer@google.com>
Joel Stemmer <stemmertech@gmail.com>
Joey Geiger <jgeiger@users.noreply.github.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
Johan Euphrosine <proppy@google.com>
Kristopher Watts <traetox@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@gmail.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@gmail.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrylo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lanmn@gmail.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Leher Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@gmail.com>
Leon Klingele <git@leonklingele.de>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@gmail.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@mattblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hiocar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekiproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matthy.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@gmail.com>
Matthew Denton <mdenton@skiportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Ushakov <ushmax@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@gmail.com>
Maxim Ushakov <ushakov@yandex.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <ncuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com>
Mhd Sulhan <mshulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knysz <mknysz@yandex.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Durakananda <pongad@gmail.com>
Michael Dorner <mail@michaeldorner.de>
Michael Edwards <medwards@walledcity.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Ellis <micellis@justin.tv>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Fromberger <michael.j.fromberger@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>
Michael Henderson <mdhender@users.noreply.github.com>
Michael Hendricks <michael@ndrix.org>
Michael Hoisie <hoisie@gmail.com>
Michael Hudson-Doyle <michael.hudson@linaro.org>
Michael Kasch <michael.kasch@gmail.com>
Michael Kufl <golang@c.michael-kaeufl.de>
Michael Kelly <mjk@google.com>
Michael Lewis <mikelikespie@gmail.com>
Michael MacInnis <Michael.P.MacInnis@gmail.com>
Michael Marineau <michael.marineau@coreos.com>
Michael Matloob <matloob@google.com>
Michael McConville <momcconville@gmail.com>
Michael McGreavy <mcmgreavy@golang.org>
Michael McLoughlin <mmcloughlin@gmail.com>
Michael Munday <mike.munday@ibm.com>
Michael Pearson <mjppearson@gmail.com>
Michael Piatek <piatek@gmail.com>
Michael Pratt <mpratt@gmail.com>
Michael Schaller <michael@schaller.de>
Michael Schurter <michael.schurter@gmail.com>
Michael Shields <mshields@google.com>
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>
Michael Steinert <mike.steiner@gmail.com>
Michael T. Jones <mtj@google.com> <michael.jones@gmail.com>
Michael Teichgraeber <mteichgraeber@gmx.de> <mt4swm@googlemail.com>
Michael Traver <mtraver@google.com>
Michael Vetter <g.bluehut@gmail.com>
Michal Bohuslvek <mbohuslavek@gmail.com>
Michal Cierniak <cierniak@gmail.com>
Micha Derkacz <ziutek@inet.pl>
Michal Franc <lam.michal.franc@gmail.com>
Michal Pristas <michal.pristas@gmail.com>
Michal Rostecki <mnrostecki@suse.de>
Michalis Kargakis <michaliskargakis@gmail.com>
Michel Lespinasse <walken@google.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Mendez <stxmendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <mikti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.leby.org>
Mike Danese <mikedanese@google.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@google.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <mikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Miroslav Genov <mgenov@gmail.com>
Misty De Meo <misty.demeo@gmail.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajo36@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <mkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevds@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammed Uluyol <uluyol0@gmail.com>
Mura Li <mura_li@castech.com.tw>
Nan Deng <monnand@gmail.com>
Naoki Kanatani <k12naoki@gmail.com>
Nate Wilkinson <nathanwilk7@gmail.com>
Nathan Cantelmo <n.cantelmo@gmail.com>
Nathan Caza <mastercactapus@gmail.com>
Nathan Humphreys <nkhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate.finch@gmail.com>
Nathan VanBenschoten <nvanbenschoten@gmail.com>
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Ron Minnich <rminnich@gmail.com>
Ross Chater <rdchater@gmail.com>
Ross Light <light@google.com> <rlight2@gmail.com>
Ross Smith II <ross@smithii.com>
Rowan Marshall <rowanajmarshall@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rudi Kramer <rudi.kramer@gmail.com>
Rui Ueyama <ruui@gmail.com>
Ruslan Nigmatullin <elessar@dropbox.com>
Russ Cox <rsc@golang.org>
Russell Haering <russellhaering@gmail.com>
Ryan Bagwell <ryanbagwell@outlook.com>
Ryan Barrett <ryanb@gmail.com>
Ryan Boehning <ryan.boehning@apcera.com>
Ryan Brown <ribrdb@google.com>
Ryan Canty <jrcanty@gmail.com>
Ryan Dahl <ry@tinyclouds.org>
Ryan Hitchman <hitchmanr@gmail.com>
Ryan Lower <rpjlower@gmail.com>
Ryan Roden-Corrent <ryan@rcorre.net>
Ryan Seys <ryan@ryanseys.com>
Ryan Slade <ryanslade@gmail.com>
Ryan Zhang <ryan.zhang@docker.com>
Ryoichi KATO <ryo1kato@gmail.com>
Ryuji Iwata <qt.luigi@gmail.com>
Ryuma Yoshida <ryuma.y1117@gmail.com>
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>
S.alar Onur <caglar@10ur.org>
Sabin Mihai Rapan <sabin.rapan@gmail.com>
Sai Cheemalapati <saicheems@google.com>
Sakeven Jiang <jc5930@sina.cn>
Salmn Aljammmz <s@0x65.net>
Sam Boyer <tech@samboyer.org>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@gmail.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic@google.com>
Sami Pnknen <sami.ponkanen@gmail.com>
Samuel Kelemen <SCKelemen@users.noreply.github.com>
Samuel Tan <samultan@gmail.com>
Samuele Pedroni <pedronis@lucediurna.net>
Sanjay Menakuru <balasanjay@gmail.com>
Santhosh Kumar Tekuri <santhosh.tekuri@gmail.com>
Sarah Adams <shadams@gmail.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@google.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>
Tim Henderson <tim.tadh@gmail.com>
Tim Hockin <thockin@google.com>
Tim Swast <swast@google.com>
Tim Wright <tenortim@gmail.com>
Tim Xu <xiaoxubeii@gmail.com>
Timo Savola <timosavola@gmail.com>
Timo Truyts <alkaloid.btx@gmail.com>
Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@google.com>
Tobias Assarson <tobias.assarson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>
Tobias Klauer <tklauer@distanz.ch>
Toby Burress <kurin@gmail.com>
Todd Neal <todd@tmeal.org>
Todd Wang <toddwang@gmail.com>
Tom Bergan <tombergan@google.com>
Tom Heng <zhm20070928@gmail.com>
Tom Lanyon <tomlanyon@google.com>
Tom Levy <tomlevy93@gmail.com>
Tom Limoncelli <tal@whatexit.org>
Tom Linford <tomlinford@gmail.com>
Tom Payne <twpayne@gmail.com>
Tom Szymanski <tgs@google.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tommy Schaefer <tommy.schaefer@teecom.com>
Tomoya Ishizaki <zaq1tomo@gmail.com>
Tonis Tiigi <tonistiigi@gmail.com>
Tony Reix <tony.reix@bull.net>
Tony Walker <walkert.uk@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
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    package spec
import (  "encoding/json"  "testing"
  "github.com/stretchr/testify/assert"
)

var license = License{  LicenseProps: LicenseProps{Name: "the name", URL: "the url"},  VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `  "name": "the name",  "url": "the url",  "x-license": "custom term"
`

func TestIntegrationLicense(t *testing.T) {

// const licenseYAML = "name: the name\nurl: the url"

b, err := json.MarshalIndent(license, "", "\t")
if assert.NoError(t, err) {
  assert.Equal(t, licenseJSON, string(b))
}

actual := License{}
err = json.Unmarshal([]byte(licenseJSON), &actual)
if assert.NoError(t, err) {
  assert.EqualValues(t, license, actual)
}
}

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package spec
import (
  "encoding/json"

  "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a/licenseObject
type License struct {
  LicenseProps
  VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
  Name string `json:"name,omitempty"
  URL  string `json:"url,omitempty"
}

// UnmarshalJSON hydrates License from json
func (*License) UnmarshalJSON(data []byte) error {
  if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
    return err
  }
  return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
  b1, err := json.Marshal(l.LicenseProps)
  if err != nil {
    return nil, err
  }
  b2, err := json.Marshal(l.VendorExtensible)
  if err != nil {
    return nil, err
  }
  return swag.ConcatJSON(b1, b2), nil
}

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* m_action.c  Action Management
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*
* Authors: J Hadi Salim (hadi@cyberus.ca)
*
* TODO:
* - parse to be passed a filedescriptor for logging purposes
*

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OVERVIEW
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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg” and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included

libjpeg.doc  How to use the JPEG library in your own programs.
example.c    Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc  Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.
"jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

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(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

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We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch, sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA. ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.
We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."

REFERENCES
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We highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
good explanations and example C code for a multitude of compression methods
including JPEG. It is an excellent source if you are comfortable reading C
code but don't know much about data compression in general. The book's JPEG
sample code is far from industrial-strength, but when you are ready to look
at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data
Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published
The book includes the complete text of the ISO JPEG standards (DIS 10918-1
and draft DIS 10918-2). This is by far the most complete exposition of JPEG
in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a
paper copy through ISO or ITU. (Unless you feel a need to own a certified
official copy, we recommend buying the Pennebaker and Mitchell book instead;
it's much cheaper and includes a great deal of useful explanatory material.)
In the USA, copies of the standard may be ordered from ANSI Sales at (212)
642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI
doesn't take credit card orders, but Global does.) It's not cheap: as of
1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7%
shipping/handling. The standard is divided into two parts, Part 1 being the
actual specification, while Part 2 covers compliance testing methods. Part 1
is titled "Digital Compression and Coding of Continuous-tone Still Images,
Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS
10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of
Continuous-tone Still Images, Part 2: Compliance testing" and has document

Some extensions to the original JPEG standard are defined in JPEG Part 3,
a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG
currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file
format. For the omitted details we follow the "JFIF" conventions, revision
1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.
Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)
FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.
As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net. This package was debianised by Steve McIntyre <stevem@chiark.greenend.org.uk>, finishing on Sun 7th October 2001. The maintainership was transferred in August 2003 to Andreas Barth <aba@not.so.argh.org>, first as cooperative maintainership and sponsored by Steve.

Packaging and keeping the package current is not simple, for details see README.Debian. We consider http://netpbm.alioth.debian.org/ the technical upstream, and this release can be exported out of alioth by
cvs -z3 -d:pserver:anonymous@cvs.alioth.debian.org:/cvsroot/netpbm export \
-r debian-9-25-2 netpbm

Copyright:
==========

Netpbm has a very complicated licensing setup, as it is a collection of hundreds of small utility programs, each with an individual copyright/license. From inspection of the source and documentation in the package, I believe the following programs are DFSG-free. They have a variety of licenses, which I have summarised below for convenience.

A: The most common netpbm license - clearly the original from Jef Poskanzer:

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The core libp[gbnp]m library code all also seems to follow this license.

B: The standard BSD license. See /usr/share/common-licenses/bsd

C: GNU General Public License v2. See /usr/share/common-licenses/gpl.

D: The Independent JPEG Group license:

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(2) If only executable code is distributed, then the accompanying
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Programs actually included in this package:

411toppm: (B) 2001 Steve Allen <sla@alumni.caltech.edu>
anytopnm: (A) 1991 Jef Poskanzer
ascitopgm: (A) 1989 Wilson H. Bent, Jr
atktopbm: (A) 1991 Bill Janssen
bioradtopgm: (A) 1993 Oliver Trepte <oliver@fysik4.kth.se>
bmptopnm: (A) 1992 David W. Sanderson (as bmptopppm)
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<td>(A) 1990</td>
<td>Jef Poskanzer, John Tiller <a href="mailto:tiller@galois.msfc.nasa.gov">tiller@galois.msfc.nasa.gov</a></td>
</tr>
<tr>
<td>pbmtog3</td>
<td>(A) 1989</td>
<td>Paul Haeberli <a href="mailto:paul@manray.sgi.com">paul@manray.sgi.com</a></td>
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pbmtogem:  (A) 1988  Jef Poskanzer, David Beckemeyer
pbmtogo:   (A) 1988-1989 Jef Poskanzer, Michael Haberler, Bo Thide'
pbmtolicon:  (A) 1988  Jef Poskanzer
pbmtomacp:  (A) 1988  Douwe vand der Schaaf
pbmtomda:   (C) 1999  John Elliott <jce@seasip.demon.co.uk>
pbmtomgr:   (A) 1989  Jef Poskanzer
pbmtomonokia:  (A) 2001  OMS Open Media System GmbH, Tim Rhser <tim.ruehsen@openmediasystem.de>
pbmtopgm:  (A) 1989-1990 Jef Poskanzer, Angus Duggan
pbmtop3:    (A) 1988  David Beckemeyer and Jef Poskanzer
pbmttopl:   (A) 1990  Arthur David Olson
pbmtoppa:   (C) 1998  Tim Norman
pbmtops3:   (C) 2001  Kristof Koehler <kristof@fachschaft.physik.uni-kaelruhe.de>
pbmtopux:  (A) 1988  Jef Poskanzer
pbmtowbmp:  (A) 1999  Terje Sannum <terje@looplab.com>
pbmtobox:   (A) 1988  Jef Poskanzer
pbmtobybm:  (A) 1991  Jamie Zawinski and Jef Poskanzer
pbmtozinc:  (A) 1988  James Darrell McCauley <jdm5548@diamond.tamu.edu>, Jef Poskanzer

pgmbentley:  (A) 1990  Wilson Bent <whb@hoh-2.att.com>
pgmcrater:  (H) 1989  John Walker <kelvin@autodesk.com>
pgmedge:   (A) 1989  Jef Poskanzer
pgmenhance: (A) 1989-1991 Jef Poskanzer
pgmhist:    (A) 1989  Jef Poskanzer
pgmkernel:  (A) 1992  Alberto Accomazzi, Smithsonian Astrophysical Observatory
pgmnoise:   (A) 1993  Frank Neumann
pgmramp:    (A) 1989  Jef Poskanzer
pgmslice:   (C) 2000  Jos Dingjan <jos@tuatha.org>
pgmtexture: (A) 1991  Texas Agricultural Experiment Station, James Darrell McCauley
pgmtofs:    (A) 1991  Jef Poskanzer
pgmtolisp:  (A) 1991  Jamie Zawinski and Jef Poskanzer
pgmtopbm:   (A) 1989  Jef Poskanzer
pgmtoppbm:  (A) 1991  Jef Poskanzer
pi1toppm:   (A) 1991  Steve Belczyk <seb3@gte.com> and Jef Poskanzer
pi3topbm:   (A) 1988  David Beckemeyer and Diomidis D. Spinellis
pjttoppm:   (A) 1990  Christos Zoulas <christos@ee.cornell.edu>
pngtoppm:  (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willem@schaik.com>
 pnmalias:  (A) 1992  Alberto Accomazzi, Smithsonian Astrophysical Observatory
 pnmarith:  (A) 1989-1991 Jef Poskanzer
 pnmcat:    (A) 1989-1991 Jef Poskanzer
 pnmcolormap (A) 1989,1991 Jef Poskanzer
                  (A) 2001  Bryan Henderson
 pnmcomp:    (A) 1992  David Koblas
 pnmconvol:  (A) 1989-1995 Jef Poskanzer, Mike Burns <burns@chem.psu.edu>
nmcrop:     (A) 1988  Jef Poskanzer
pnmcut:  (A) 1989  Jef Poskanzer
pnmdepth:  (A) 1989-1991  Jef Poskanzer
pnmenlarge:  (A) 1989  Jef Poskanzer
pnmfile:  (A) 1991  Jef Poskanzer
pnmflip:  (A) 1989  Jef Poskanzer
pnmgamma:  (A) 1991  Jef Poskanzer and Bill Davidson
pnmhisteq:  (H) 1995  John Walker <kelvin@fourmalib.ch>
pnmhistmap:  (A) 1993  Wilson H. Bent, Jr <whb@usc.edu>
pnmindex:  (A) 1991  Jef Poskanzer
pnminvert:  (A) 1989  Jef Poskanzer
pnmmargin:  (A) 1991  Jef Poskanzer
pnmmontage:  (A) 2000  Ben Olmstead
pnmlifilt:  (A) 1993  Graeme W. Gill <graeme@labtam.oz.au>
pnnorm:  (A) 1989,1991  Jef Poskanzer (as pgmnorm)
  (A)  Michael Mauldin (fnorm-filter in "Fuzzy Pixmap")
  (A)  Wilson H. Bent, Jr. (whb@usc.edu) (as ppmnorm)
  (A) 2002  Bryan Henderson
pnmpad:  (A) 1989  Jef Poskanzer
  (A) 1990  Angus Duggan
  (A) 2002  Martin van Beilen
pnmpaste:  (A) 1989  Jef Poskanzer
pnmpslnr:  (C) 1994-2000  Ullrich Hafner <hafner@bigfoot.de>
pnmmquant:  (H1) 2002  Bryan Henderson
pnmmremap:  (A) 1989,1991  Jef Poskanzer (as ppmquant)
  (A) 2001  Bryan Henderson
pnnrotate:  (A) 1989-1991  Jef Poskanzer
pnmscale:  (A) 1989-1991  Jef Poskanzer
pnmscalefixed:  (A) 1989-1991  Jef Poskanzer
pnmshear:  (A) 1989-1991  Jef Poskanzer
pnmsmooth:  (A) 1984  Mike Burns <burns@chem.psu.edu>
pnmssplit:  (H1) 2000  Bryan Henderson <bryanh@giraffe-data.com>
pnmtitle:  (A) 1989  Jef Poskanzer
pnmtofidoif:  (A) 1992  Digital Equipment Corporation, Burkhard Neiderer-Lutz
pnmtofia:  (C) 1994-2000  Ullrich Hafner <hafner@bigfoot.de>
pnmtofits:  (C) 1989  Wilson H. Bent <whb@hoh-2.att.com>
pnmtojpeg:  (D) 1991-2001  Thomas G. Lane, Bryan Henderson
pnmtopal:  (A) 1995-2000  Ian Goldberg, Bill Janssen
pnmtoplainpnm:  (A) 1991  Jef Poskanzer
pnmtopng:  (A) 1995-1998  Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willemschaik.com>
pnmtops:  (A) 1989  Jef Poskanzer
pnmtorast:  (A) 1989-1991  Jef Poskanzer
pnmtorle:  (E) 1994  Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pnmtosgi:  (A) 1994  Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
pnmtosir:  (A) 1991  Marvin Landis
pnmtotiff:  (A) 1990  Sun Microsystems, Inc, Jef Poskanzer
pnmtotiffcmlyk:  (C) 1999  Andrew Cooke (Jara Software) <jara@andrewcooke.free-online.co.uk>
pnmtowxd:  (A) 1989-1991  Jef Poskanzer
ppm3d: (A) 1989 Jef Poskanzer
ppmbrighten: (A) 1989-1990 Jef Poskanzer, Brian Moffet
ppmchange: (A) 1991 Wilson H. Bent, Jr
ppmcie: (H) 1995 John Walker <kelvin@fourmilab.ch>
pmmcolormask: (H1) 2000 Bryan Henderson <bryanh@giraffe-data.com>
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ppmndim: (A) 1993 Frank Neumann
ppmdist: (A) 1993 Dan Stromberg
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ppmfade: (?) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pmmflash: (A) 1993 Frank Neumann
ppmforge: (H) 1989 John Walker <kelvin@autodesk.com>
pphemist: (A) 1989 Jef Poskanzer
ppmlabel: (H) 1995 John Walker <kelvin@fourmilab.ch>
pmmmake: (A) 1989 Jef Poskanzer
ppmmix: (A) 1993 Frank Neumann
ppmmntsc: (E) 1993 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
p MMPat: (A) 1989-1991 Jef Poskanzer
ppmqvga: (F) 1991-1992 Bill Davidsen, Lyle Rains <lrains@netcom.com>
pmmraibow: (H2) 2001 Arjen Bax <arjen.bax@cmg.nl>
pmmrelief: (A) 1990 Wilson H. Bent, Jr
ppmshadow: (G) 1997 John Walker <kelvin@fourmilab.ch>
pmmshift: (A) 1993 Frank Neumann
pmmspread: (A) 1993 Frank Neumann
pmmtoacad: (H) 1991 John Walker <kelvin@autodesk.com>
pmmtobmp: (A) 1992 David W. Sanderson
pmmtoeuv: (B) 1995 The Regents of the University of California
pmmtoicr: (A) 1990 Kanthan Pillay <svpillay@Princeton.EDU>
pmmtoilbm: (A) 1989 Jef Poskanzer
pmmtoleaf: (A) 1994 Bill O'Donnell
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pmmtomitsu: (A) 1992-1993 S.Petra Zeidler
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pmmtopcx: (B) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
pmmtopgm: (A) 1989 Jef Poskanzer
pmmtopic: (A) 1991 Jef Poskanzer and Steve Belezyk
pmmtopict: (A) 1990 Ken Yap <ken@cs.rochester.edu>
pmmtoj: (A) 1990 Christos Zoulas <christos@ee.cornell.edu>
pmmtojkg: (A) 1991 Jef Poskanzer
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ppmtoxpm: (A) 1990  Mark W. Snitily
ppmtoyuv: (A) 1987-1991 Abekas Video Systems Inc, DHD PostImage Inc
ppmtoyuvsplit: (A) 1993  Andre Beck <Andre_Beck@IRS.Inf.TU-Dresden.de>
ppmtnv:  (A) 1993  Frank Neumann
psidtopgm: (A) 1989  Jef Poskanzer
pstopnm:  (I) 1992  Smithsonian Astrophysical Observatory, Alberto Accomazzi
qrttoppm:  (A) 1989  Jef Poskanzer
rasttopnm: (A) 1989-1991 Jef Poskanzer
rawtopgm:  (A) 1989  Jef Poskanzer
rawtoppm:  (A) 1991  Jef Poskanzer
rgb3toppm:  (A) 1991  Jef Poskanzer
rletopnm:  (E) 1994  Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
sbigtopgm:  (A) 1998  John Walker
sgitopnm:  (A) 1994  Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
sirtopnm:  (A) 1991  Marvin Landis
sldtopppm: (H) 1991  John Walker <kelvin@autodesk.com>
spectoppm: (A) 1991  Jef Poskanzer and Steve Belczyk
sputoppm:  (A) 1991  Jef Poskanzer and Steve Belczyk
tifftoppm:  (A) 1990  Sun Microsystems, Inc, Jef Poskanzer
tgtoppm:  (A) 1989  Jef Poskanzer
thinkjettopbm: (A) 2001  W. Eric Norum <eric.norum@usask.ca>
wbmptopbm:  (A) 1999  Terje Sannum <terje@looplab.com>
wincottomppm: (A) 2000  Lee Benfield <lee@recoil.org>
xbntopbm:  (A) 1988  Jef Poskanzer
ximtopppm:  (A) 1991  Jef Poskanzer
xpntoppm:  (A) 1991  Jef Poskanzer
xvminitoppm: (A) 1993  Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
xwtoppm:  (A) 1989-1991 Jef Poskanzer
ybitopbm:  (A) 1988  Jamie Zawinski and Jef Poskanzer
yuvsplitoppm: (A) 1993  Marcel Wijkstra <wijkstra@fwi.uva.nl>
zeissstopnm: (A) 1993  Oliver Trepte <oliver@fysik4.kth.se>

The following packages were included in this package, but replaced:

[ bmptoppm:  (A) 1992  David W. Sanderson]
[ gemtopbm:  (A) 1988  Diomidis D. Spinellis]
[ pgmnorm:  (A) 1989-1991 Jef Poskanzer]
[ pnminterp:  (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com>]
[ pnminterp-gen:  (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com>]
[ pnmnoraw:  (A) 1991  Jef Poskanzer]
[ picttoppm:  (A) 1989-1993 George Phillips <phillips@cs.ubc.ca> [security]]
[ ppmnorm:  (A) 1989-1991 Jef Poskanzer, Wilson H. Bent, Jr <whb@usc.edu>]
[ ppmsvgalib:  (H1) 2002  Bryan Henderson [never included in debian]]
Not distributed due to patent issues:
[jbigtopnm: (C) 2000 Markus Kuhn <mkuhn@acm.org> ]
[ppmtojbig: (C) 2000 Markus Kuhn <mkuhn@acm.org> ]
filter to create GIFs - patent restricted. (http://www.unisys.com/unisys/lzw/)
[ppmtogif: (A) 1989 Jef Poskanzer ]

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PATENTS
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The original purpose of patents is probably perverted when patents are applied to things you implement in computer programs. This is one of the Free Software Foundation's causes. See <http://www.gnu.org/philosophy.html#laws>.

Unisys owns a patent on LZW compression, which is used by ppmtogif, and maybe on LZW decompression, which is used by giftoppm. IBM also owns a patent that may cover the GIF tools. Unisys offers a license of the patent for trivial use for $5000. Its patent expires in 2003. Neither company has ever enforced the patent against trivial users of it. <http://news.cnet.com/news/0-1005-200-1713278.html> is an article dated April 18, 2000 on the issue. <http://www.unisys.com/unisys/lzw/> is Unisys' view of the matter. For information from another perspective, see http://www.gnu.org/philosophy/gif.html or http://burnallgifs.org/.

The following Netpbm components may be restricted by this patent: ppmtogif, giftoppm.

A good substitute for GIF if the patents are a problem is PNG (see pngtopnm, pnmtopng), which was developed with a primary purpose of not using any patented technology.

You can also use the -nolzw option on ppmtogif to avoid using the LZW patent. The images so generated are larger than traditional LZW-compressed GIFs, but any GIF decoder can decode them just the same.
The jbigtopnm and pnmtojbig programs use arithmetic coding patents and other patents covering various aspects of the "front end."

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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
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than the cost of performing this distribution.

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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,
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1.1767 xz 5.2.2-1.3

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). 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 is a sponsoring member of the PSF.

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Mersenne Twister
--------------
The \`\_random\` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/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 :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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Floating point exception control
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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with Python standard
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---------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
--------------

The file `Python/dtoa.c`, which supplies C functions dtoa and
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

cfuhash

-------

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

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<th>Owner</th>
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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Nick Craig-Wood <nickcw@gmail.com>
Scott Van Woudenberg <scottvw@google.com>
Takashi Matsuo <tmatsuo@google.com>

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<table>
<thead>
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<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samuel A. Falvo II</td>
<td><a href="mailto:sam.falvo@rackspace.com">sam.falvo@rackspace.com</a></td>
</tr>
<tr>
<td>Glen Campbell</td>
<td><a href="mailto:glen.campbell@rackspace.com">glen.campbell@rackspace.com</a></td>
</tr>
<tr>
<td>Jesse Noller</td>
<td><a href="mailto:jesse.noller@rackspace.com">jesse.noller@rackspace.com</a></td>
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<tr>
<td>Jon Perritt</td>
<td><a href="mailto:jon.perritt@rackspace.com">jon.perritt@rackspace.com</a></td>
</tr>
<tr>
<td>Ash Wilson</td>
<td><a href="mailto:ash.wilson@rackspace.com">ash.wilson@rackspace.com</a></td>
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<tr>
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<td><a href="mailto:jamie.hannaford@rackspace.com">jamie.hannaford@rackspace.com</a></td>
</tr>
<tr>
<td>Don Schenck</td>
<td><a href="mailto:don.schenck@rackspace.com">don.schenck@rackspace.com</a></td>
</tr>
<tr>
<td>Joe Topjian</td>
<td><a href="mailto:joe@topjian.net">joe@topjian.net</a></td>
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github

import (  
    "fmt"  
    "net/http"  
    "reflect"  
    "testing"  
)

func TestLicensesService_List(t *testing.T) {
    setup()  
    defer teardown()  
    mux.HandleFunc(`/licenses`, func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[
"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"]`)  
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }
}
want := []License{
    Key: String("mit"),
    Name: String("MIT"),
    URL: String("https://api.github.com/licenses/mit"),
}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
    })

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package github

import "fmt"

// LicensesService handles communication with the license related methods of the GitHub API.
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`  
    Name *string `json:"name",omitempty`  
    URL  *string `json:"url",omitempty`  
    HTMLURL   *string `json:"html_url",omitempty`  
    Featured  *bool `json:"featured",omitempty`  
    Description *string `json:"description",omitempty`  
    Category   *string `json:"category",omitempty"`
    Implementation *string `json:"implementation",omitempty"`
    Required        *[]string `json:"required",omitempty"`
    Permitted       *[]string `json:"permitted",omitempty"`
    Forbidden       *[]string `json:"forbidden",omitempty"`
    Body           *string `json:"body",omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    return nil, nil, err
}
licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
    return nil, resp, err
}
return *licenses, resp, err
}

// Fetch extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    req.Header.Set("Accept", mediaTypeLicensesPreview)
    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }
    return license, resp, err
}

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

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

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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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.

@item
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.

@item
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:

@enumerate
  @item 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.)

  @item 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.

  @item 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.

  @item 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.

  @item Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.
@end enumerate

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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@enumerate a
@item
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@item
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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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1.1792 validate-npm-package-name 3.0.0

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1.1798 apache2-data 2.4.29-1ubuntu4.20

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Apache-Test was originally developed by:

Doug MacEachern <dougm@cpan.org>

Now maintained by:

Fred Moyer <fred@redhotpenguin.com>
Philip M. Gollucci <pgollucci@p6m7g8.com>

with contributions from the following helpful people
(in alphabetical order):

Alessandro Forghieri <Alessandro.Forghieri@think3.com>
David Wheeler <david@kineticode.com>
Gary Benson <gbenso@redhat.com>
Geoffrey Young <geoff@modperlcookbook.org>
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License: PCRE
This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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***********************************************************************

md5.c: NCSA HTTPd code which uses the md5c.c RSA Code

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3 of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
  ImapMenu {none, formatted, semiformatted, unformatted}
  ImapDefault {error, nocontent, referer, menu, URL}
  ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
  Old: directive URL [x,y ...]
    New: directive URL "Menu text" [x,y ...]
or: directive URL x.y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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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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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:

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- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martín Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
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1.1812  libtextwrapinperl 0.06-7.1

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1.1828 cpu-checker 0.7-0ubuntu7
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Andrew Tunnell-Jones
Ask Bjørn Hansen
Dave Cheney
Dusty Wilson
Marek Majkowski
Peter van Dijk
Omri Bahumi
Alex Sergeyev
James Hartig
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1.1832 pycryptodomex 3.11.0
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1.1834 google-golang-org-grpc v1.27.1

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1.1836 fonts-ubuntu 0.83-2
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Ubuntu Font Family Licensing FAQ

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 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:

1. Document embedding (see embedding section above).
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: ofl-1.1-ufl-1.0.diff.html

References

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

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1.1837 golang-genproto 0.0.0-20191115194625-c23dd37a84c9
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1.1838 x-crypto 0.0.0-20190308221718-c2843e01d9a2

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import: ../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

1.1850 netplan-io 0.99 0ubuntu3~18.04.4

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### 1.1851 p-map 4.0.0

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1.1855 prometheus-common 0.3.0

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1.1856 kubernetes-kubectl 0.18.4

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- Copy files to and from Containers in a cluster

## 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

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
```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
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1.1858 libxml 2.9.4+dfsg1 6.1ubuntu1.3

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1.1859 python-jsonpointer 1.10-1

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

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). 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 is a sponsoring member of the PSF.

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Mersenne Twister

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
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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

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

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----------

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-------

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Original location:
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Solution inspired by code from:
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  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
---------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash
-------

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

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

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

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1.1887 google-go-cmp 0.5.5

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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/MethodWriter.java
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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/xml/SAXClassAdapter.java
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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/xml/Processor.java
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The of the start-stop-daemon

* A rewrite of the original Debian’s start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* 
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:       // %bb.0:
; CHECK-NEXT:    ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT: mov v0.d[1], v0.d[0]
; CHECK-NEXT: ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machinein strs | FileCheck %s

; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246

CF246:             ; preds = %CF246, %BB
  %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248

CF248:             ; preds = %CF248, %CF246
  store i8 %SI163, i8* %0
  br label %CF248
}

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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; CHECK-LABEL: test_sitofp_fixed:

  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
  ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

  ; Next, convert each to double.
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
  ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
  ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
  ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
  ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:
; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
declare fp128 @TestSelect(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestSelect:
; CHECK: # %bb.0:
; CHECK-NEXT: pushq %rbx
; CHECK-NEXT: .cfi_def_cfa_offset 16
; CHECK-NEXT: subq $32, %rsp
; CHECK-NEXT: .cfi_def_cfa_offset 48
; CHECK-NEXT: .cfi_offset %rbx, -16
; CHECK-NEXT: movaps %xmm1, {[[-0-9]+]}(%r{[sb]}p) # 16-byte Spill
; CHECK-NEXT: movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT: callq __gttf2
; CHECK-NEXT: movl %eax, %ebx
; CHECK-NEXT: movaps (%rsp), %xmm0 # 16-byte Reload
; CHECK-NEXT: movaps {[[-0-9]+]}(%r{[sb]}p), %xmm1 # 16-byte Reload
; CHECK-NEXT: callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  jg .LBB0_2
; CHECK-NEXT:  # %bb.1:
; CHECK-NEXT:  xorps %xmm0, %xmm0
; CHECK-NEXT:  .LBB0_2:
; CHECK-NEXT:  .LBB0_2:
; CHECK-NEXT:  addq $32, %rsp
; CHECK-NEXT:  .cfi_def_cfa_offset 16
; CHECK-NEXT:  popq %rbx
; CHECK-NEXT:  .cfi_def_cfa_offset 8
; CHECK-NEXT:  retq
%cmp = fcmp ogt fp128 %a, %b
%sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL000000000000000000000000
ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
; CHECK-LABEL: TestFabs:
; CHECK:  # %bb.0:
; CHECK-NEXT:  andps {{.*}}(%rip), %xmm0
; CHECK-NEXT:  retq
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestCopysign:
; CHECK:  # %bb.0:
; CHECK-NEXT:  andps {{.*}}(%rip), %xmm0
; CHECK-NEXT:  orps %xmm1, %xmm0
; CHECK-NEXT:  retq
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
; CHECK-LABEL: TestFneg:
; CHECK:  # %bb.0:
; CHECK-NEXT:  pushq %rax
; CHECK-NEXT:  movaps %xmm0, %xmm1
; CHECK-NEXT:  callq __multf3
; CHECK-NEXT:  xorps {{.*}}(%rip), %xmm0
; CHECK-NEXT:  popq %rax
; CHECK-NEXT:  .cfi_def_cfa_offset 8
; CHECK-NEXT:  retq
%mul = fmul fp128 %a, %a
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; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}

define internal void @innerNoAttribute() {
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
  call void @innerSmall()
  ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?!]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?!]] = bitcast i32 805874688 to i32
define void @foo_i8() {
entry:
%0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
%1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
%2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
%3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
%4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

@goo = global i8* undef

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805873720 to i16*)
%1 = load volatile i16, i16* inttoptr (i32 805873688 to i16*)
%2 = load volatile i16, i16* inttoptr (i32 805873668 to i16*)
%3 = load volatile i16, i16* inttoptr (i32 805873668 to i16*)
%4 = load volatile i16, i16* inttoptr (i32 805873688 to i16*)
store i16 %4, i16* inttoptr(i32 805873668 to i16*)
store i16 %3, i16* inttoptr(i32 805873668 to i16*)
store i16 %2, i16* inttoptr(i32 805873668 to i16*)
store i16 %1, i16* inttoptr(i32 805873668 to i16*)
ret void
}

; Check that for i8 type, the maximum legal offset is 62.
; CHECK: foo_i16

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

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Billy Robert O'Neal III <billy.onearl@gmail.com> <bion@microsoft.com>
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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
    CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
    CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
    ; CHECK-NEXT: ret void
    :
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
    ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
    ; CHECK-NEXT: bb:
    %arg = alloca <8 x i64>, align 32
    %arg1 = bitcast <8 x i64>* %arg to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %arg1, i8 0, i64 32, i1 false)
    %arg1 = load <8 x i64>, <8 x i64>* %arg1, align 2
    ret void
}

bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
    ; CHECK-NEXT: ret void
    ;
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
    ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32

; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
}
; This should promote

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; This should promote

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void

; bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
; bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #3 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void

; bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
  ; CHECK-NEXT: ret void
  
  ; bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  ; CHECK-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
  ; CHECK-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT: ret void
  
  ; bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
  ; CHECK-NEXT: ret void
}
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
)

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
    bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
    bb:
    %A = load i32, i32* %X
    %B = load i32, i32* %Y
    %C = add i32 %A, %B
    ret i32 %C
}
define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
    ; CHECK-LABEL: define {{[^@]+}}@scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (i32* {{[^B::%.]*}})
    ; CHECK-NEXT: [[A:%.*]] = alloca i32
    ; CHECK-NEXT: store i32 1, i32* [[A]]
    ; CHECK-NEXT: [[A_VAL:%.*]] = load i32, i32* [[A]]
    ; CHECK-NEXT: [[B_VAL:%.*]] = load i32, i32* [[B]]
    ; CHECK-NEXT: [[C:%.*]] = call i32
    @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
    ; CHECK-NEXT: ret i32 [[C]]
    ;
    %A = alloca i32
    store i32 1, i32* %A
    %C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
    ret i32 %C
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
    ; CHECK-LABEL: define {{[^@]+}}@scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (i32* {{[^X::%.]*}}, i32* {{[^Y::%.]*}})
    ; CHECK-NEXT: [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
    ; CHECK-NEXT: ret i32 [[C]]
    ;
    %A = load i32, i32* %X
    %B = load i32, i32* %Y
    %C = add i32 %A, %B
    ret i32 %C
}

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
    ; CHECK-LABEL: define {{[^@]+}}@scalar_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (i32* {{[^B::%.]*}})
    ; CHECK-NEXT: [[A:%.*]] = alloca i32
    ; CHECK-NEXT: store i32 1, i32* [[A]]
    ; CHECK-NEXT: [[A_VAL:%.*]] = load i32, i32* [[A]]
    ; CHECK-NEXT: [[B_VAL:%.*]] = load i32, i32* [[B]]
    ; CHECK-NEXT: [[C:%.*]] = call i32
    @scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
    ; CHECK-NEXT: ret i32 [[C]]
    ;
    %A = alloca i32
    store i32 1, i32* %A
    %C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
    ret i32 %C
attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for vpmaddwd+vpaddd
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vnni -mcpu=cascadelake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vnni -mcpu=cooperlake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-
This file primarily contains tests for specific places in X86ISelLowering.cpp that needed to be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```swift
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: add256:
  ; CHECK:         # %bb.0:
  ; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:   vpadd 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT:   vpadd (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT:   vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT:   vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT:   vzeroupper
  ; CHECK-NEXT:   retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}
```

```swift
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: add512:
  ; CHECK:         # %bb.0:
  ; CHECK-NEXT:   vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:   vpadd 32(%rsi), %zmm0, %zmm0
  ; CHECK-NEXT:   vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT:   vzeroupper
  ; CHECK-NEXT:   retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}
```

```swift
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: avg_v64i8_256:
  ; CHECK:         # %bb.0:
  ; CHECK-NEXT:   vmovdqa (%rsi), %ymm0
```
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqu %ymm1, (%rax)
; CHECK-NEXT: vmovdqu %ymm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>

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define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: pmaddwd_32_256:
  ; CHECK: # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: pmaddwd_32_512:
  ; CHECK: # %bb.0:
  ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB8_1: # %vector.body
; CHECK-NEXT: # ==>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm3
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm4
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm5
; CHECK-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT: vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm3
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT: vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpl %rcx, %rax
; CHECK-NEXT: jne .LBB8_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT: vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

test:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
  %4 = getelementptr inbounds i8, i8* %0, i64 %index
  %5 = bitcast i8* %4 to <32 x i8>*
  %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
  %6 = sext <32 x i8> %wide.load to <32 x i32>
  %7 = getelementptr inbounds i8, i8* %1, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*
  %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
  %9 = sext <32 x i8> %wide.load14 to <32 x i32>
  %10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef
%bin.rdx18 = add <32 x i32> %bin.rdx15, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef
%bin.rdx20 = add <32 x i32> %bin.rdx19, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: p2align 4, 0x90
; CHECK-NEXT: .LBB9_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3

; CHECK-NEXT:  vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT:  v padd %zmm1, %zmm2, %zmm1
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB9_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  v padd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  v padd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  v padd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vps hufd {{.*#+} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  v padd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextr acti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  v padd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  v extracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  v padd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vec tna #2, # %middle.block

entry:
  %3 = zext i32 %2 to i64
  br label %vector.body

vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
  %4 = getelementptr inbounds i8, i8* %0, i64 %index
  %5 = bitcast i8* %4 to <32 x i8>*
  %5 = load <32 x i8*> %5, align 1
  %6 = sext <32 x i8> %5, %5, align 1
  %7 = load <32 x i8> %6, align 1
  %7 = getelementptr inbounds i8, i8* %6, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*
  %8 = load <32 x i8*> %8, align 1
  %9 = load <32 x i8> %8, %8, align 1
  %9 = add nsw <32 x i32> %9, %6
  %10 = mul nsw <32 x i32> %9, %6
  %11 = add nsw <32 x i32> %10, %vec.phi
  %index.next = add i64 %index, 32
  %12 = icmp eq i64 %index, %3
  br i1 %12, label %middle.block, label %vector.body

middle.block:
  %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde

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i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>  
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf  
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>  
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15  
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>  
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17  
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>  
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19  
%13 = extractelement <32 x i32> %bin.rdx20, i32 0  
ret i32 %13  
}  

@a = global [1024 x i8] zeroinitializer, align 16  
@b = global [1024 x i8] zeroinitializer, align 16  

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: sad_16i8_256:  
  ; CHECK: # %bb.0: # %entry  
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0  
  ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00  
  ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1  
  ; CHECK-NEXT: .p2align 4, 0x90  
  ; CHECK-NEXT: .LBB10_1: # %vector.body  
  ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1  
  ; CHECK-NEXT: vmovdqu a+1024(%rax), %ymm2  
  ; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2, %ymm2  
  ; CHECK-NEXT: vpadd %ymm1, %ymm2, %ymm1  
  ; CHECK-NEXT: addq $4, %rax  
  ; CHECK-NEXT: jne .LBB10_1  
  ; CHECK-NEXT: # %bb.2: # %middle.block  
  ; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0  
  ; CHECK-NEXT: vextracti128 $1, %ymm0, %ymm1  
  ; CHECK-NEXT: vpadd %ymm1, %ymm0, %ymm0  
  ; CHECK-NEXT: vpsadbw {[*#]} xmm1 = xmm0[2,3,0,1]  
  ; CHECK-NEXT: vpadd %ymm1, %ymm0, %ymm0  
  ; CHECK-NEXT: vpshufd {[*#]} xmm1 = xmm0[1,1,2,3]  
  ; CHECK-NEXT: vpadd %ymm1, %ymm0, %ymm0  
  ; CHECK-NEXT: vmovd %ymm0, %eax  
  ; CHECK-NEXT: vzeroupper  
}
entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> %i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 8, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx4, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" { ; CHECK-LABEL: sad_16i8_512: ; CHECK: # %bb.0: # %entry
entry:
    br label %vector.body

vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
    %2 = zext <16 x i8> %wide.load to <16 x i32>
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
    %4 = bitcast i8* %3 to <16 x i8>*
    %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
    %5 = zext <16 x i8> %wide.load1 to <16 x i32>
    %6 = sub nsw <16 x i32> %2, %5
    %7 = icmp sgt <16 x i32> %6, %i1
    %8 = add nsw <16 x i32> %7, %i1
    %9 = select <16 x i1> %7, %i1
    %10 = add nsw <16 x i32> %9, %vec.phi
    %index.next = add i64 %index, 4
    %11 = icmp eq i64 %index.next, 1024
    br i1 %11, label %middle.block, label %vector.body

middle.block:
    %rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15>
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" { 
; CHECK-LABEL: sbto16f32_256:
; CHECK:
; %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" { 
; CHECK-LABEL: sbto16f32_512:
; CHECK:
; %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:
# %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {

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define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovmd2d %k0, %zmm0
    ; CHECK-NEXT:    vpsrlq $31, %zmm0, %zmm0
    ; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm1
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %l = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %l, <16 x double>* %res
    ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32toub_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT:    vpsllq $31, %ymm1, %ymm1
    ; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpsllq $31, %ymm1, %ymm1
    ; CHECK-NEXT:    vpmovdq2m %ymm1, %k0
    ; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpsllq $31, %ymm1, %ymm1
    ; CHECK-NEXT:    vpmovdq2m %ymm1, %k1
    ; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT:    vmovdqqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr

%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: test_16f32toub_512:
  ; CHECK:
    # %bb.0:
    ; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:  vpslld $31, %zmm1, %zmm1
    ; CHECK-NEXT:  vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 [%k1] [z]
    ; CHECK-NEXT:  retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: test_16f32tosb_256:
  ; CHECK:
    # %bb.0:
    ; CHECK-NEXT:  vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT:  vpmovd2m %ymm1, %k0
    ; CHECK-NEXT:  vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT:  vpmovd2m %ymm1, %k1
    ; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 [%k1] [z]
    ; CHECK-NEXT:  retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: test_16f32tosb_512:
  ; CHECK:
    # %bb.0:
    ; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:  vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 [%k1] [z]
    ; CHECK-NEXT:  retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}
define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: mul256:
; CHECK-AVX512:  # %bb.0:
; CHECK-AVX512-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-AVX512-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-AVX512-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-AVX512-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm4 = ymm3[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm5 = ymm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm3 = ymm3[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm1 = ymm1[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm3 = ymm3[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm4 = ymm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT:  vpmullw %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm2 = ymm2[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm0 = ymm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpmullw %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpunpckhbw %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-AVX512-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-AVX512-NEXT:  vzeroupper
; CHECK-AVX512-NEXT:  retq
; CHECK-AVX512-NEXT:  CHECK-VBMI-LABEL: mul256:
; CHECK-VBMI:  # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT:  vmovdqa (%rsi), %ymm3
; CHECK-VBMI-NEXT:  vzeroupper
; CHECK-VBMI-NEXT:  retq

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; CHECK-VBMI-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
  ymm3[8,8,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
  ymm1[8,8,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} ymm3 =
  ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} ymm1 =
  ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vmovdqa {{.*#+}} ymm3 =
  [0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,30,32,48,50,52,54,56,58,60,62]
; CHECK-VBMI-NEXT:  vpermt2b %ymm4, %ymm3, %ymm1
; CHECK-VBMI-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT:  vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
  zmm1[8,8,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
  zmm0[8,8,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT:  vmovdqa %zmm0, (%rdx)
; CHECK-VBMI-NEXT:  vzeroupper
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {  
  CHECK-AVX512-LABEL: mul512:
  CHECK-AVX512:       # %bb.0:
  CHECK-AVX512-NEXT:  vmovdq64 (%rdi), %zmm0
  CHECK-AVX512-NEXT:  vmovdq64 (%rsi), %zmm1
  CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
    zmm1[8,8,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
  CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
    zmm0[8,8,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
  CHECK-AVX512-NEXT:  vpmullw %zmm2, %zmm3, %zmm2

  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = mul <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}
; CHECK-AVX512-NEXT: vmovdqa64 {{.*#+}} zmm3 =
55,255,255,255,255,255]
; CHECK-AVX512-NEXT: vpandq %zmm3, %zmm2, %zmm2
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT: vpmullw %zmm1, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vpandq %zmm3, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-AVX512-NEXT: vzeroupper
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: mul512:
; CHECK-VBMI:
# %bb.0:
; CHECK-VBMI-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} zmm2 =
zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT: vpmullw %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT: vpmullw %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT: vmovdqa64 {{.*#+}} zmm1 =
[0,2,4,6,8,10,12,14,64,66,68,70,72,74,76,78,16,18,20,22,24,26,28,30,80,82,84,86,88,90,92,94,32,34,36,38,40,42,44,
; CHECK-VBMI-NEXT: vpermi2b %zmm2, %zmm0, %zmm1
; CHECK-VBMI-NEXT: vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT: vzeroupper
; CHECK-VBMI-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

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; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: mload_v4i32:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vptestnmd %xmm0, %xmm0, %k1
    ; CHECK-NEXT:    vpmovd (%rdi), %ymm1, %ymmm { %k1
    ; CHECK-NEXT:    retq
    %mask = icmp eq <4 x i32> %trigger, zeroinitializer
    %res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
    ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)
define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v16i64_v16i32:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovdqa (%rdi), %ymmm0
    ; CHECK-NEXT:    vpmovdqa 32(%rdi), %ymmm1
    ; CHECK-NEXT:    vpmovdqa 64(%rdi), %ymmm2
    ; CHECK-NEXT:    vpmovdqa 96(%rdi), %ymmm3
    ; CHECK-NEXT:    vpmovdqa %ymmm0, %ymmm0
    ; CHECK-NEXT:    vpmovdqa %ymmm1, %ymmm1
    ; CHECK-NEXT:    vpmovdqa %ymmm2, %ymmm2
    ; CHECK-NEXT:    vpmovdqa %ymmm3, %ymmm3
    ; CHECK-NEXT:    vpsllw %x, %x, 0
    ; CHECK-NEXT:    vpunpckldq {{.*#+}} xmm2 = xmm2[0], xmm3[0], xmm2[1], xmm3[1]
    ; CHECK-NEXT:    vpmovdqa %ymmm1, %ymmm1
    ; CHECK-NEXT:    vpmovdqa %ymmm0, %ymmm0
    ; CHECK-NEXT:    vpunpckldq {{.*#+}} xmm0 = xmm0[0], xmm1[0], xmm0[1], xmm1[1]
    %a = load <16 x i64>, <16 x i64>* %x
    %b = trunc <16 x i64>* %a to <16 x i32>
    ret <16 x i32> %b
}
define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v16i64_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovdqa (%rdi), %ymmm0
    ; CHECK-NEXT:    vpmovdqa 32(%rdi), %ymmm1
    ; CHECK-NEXT:    vpmovdqa 64(%rdi), %ymmm2
    ; CHECK-NEXT:    vpmovdqa 96(%rdi), %ymmm3
    ; CHECK-NEXT:    vpmovdqa %ymmm3, %ymmm3
    ; CHECK-NEXT:    vpmovdqa %ymmm2, %ymmm2
    ; CHECK-NEXT:    vpunpckldq {{.*#+}} xmm2 = xmm2[0], xmm3[0], xmm2[1], xmm3[1]
    ; CHECK-NEXT:    vpmovdqa %ymmm1, %ymmm1
    ; CHECK-NEXT:    vpmovdqa %ymmm0, %ymmm0
    ; CHECK-NEXT:    vpunpckldq {{.*#+}} xmm0 = xmm0[0], xmm1[0], xmm0[1], xmm1[1]
define <16 x i8> @trunc_v16i32_v16i8(<16 x i32> %a) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_v16i32_v16i8:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:  vpmovdb %ymm1, %xmm1
  ; CHECK-NEXT:  vpmovdb %ymm0, %xmm0
  ; CHECK-NEXT:  vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],%x
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %a = load <16 x i32>, <16 x i32>* %a
  %b = trunc <16 x i32> %a to <16 x i8>
  ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64> %a) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_v8i64_v8i8:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:  vpmovdq %ymm1, %xmm1
  ; CHECK-NEXT:  vpmovdq %ymm0, %xmm0
  ; CHECK-NEXT:  vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],%x
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %a = load <8 x i64>, <8 x i64>* %a
  %b = trunc <8 x i64> %a to <8 x i8>
  ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64> %a) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_v8i64_v8i16:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:  vpmovqw %ymm1, %xmm1
  ; CHECK-NEXT:  vpmovqw %ymm0, %xmm0
  ; CHECK-NEXT:  vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],%x
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %a = load <8 x i64>, <8 x i64>* %a
  %b = trunc <8 x i64> %a to <8 x i8>
  ret <8 x i8> %b
}
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpsrlq $48, 32(%rdi), %ymm1
; CHECK-NEXT:  vpsrlq $48, (%rdi), %ymm2
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
; CHECK-NEXT:  vpermi2w %ymm1, %ymm2, %ymm0
; CHECK-NEXT:  retq
%a = load <8 x i64>, <8 x i64>* %x
%b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT:  vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT:  retq
%a = load <16 x i32>, <16 x i32>* %x
%b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:  vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:  vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:  vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:  vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:  retq
;
; CHECK-VBMI-LABEL:  trunc_v32i16_v32i8_zeroes:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:  vpermi2b 32(%rdi), %ymm1, %ymm0
define <8 x i32> @trunc_v8i64_v8i32_sign(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_sign:
; CHECK: # %bb.0:
; CHECK-NEXT: vpsraq $48, 32(%rdi), %ymm0
; CHECK-NEXT: vpsraq $48, (%rdi), %ymm1
; CHECK-NEXT: vpmovqd %ymm1, %xmm1
; CHECK-NEXT: vpmovqd %ymm0, %xmm0
; CHECK-NEXT: vinserti128 $1, %xmm0, %ymm1, %ymm0
; CHECK-NEXT: retq
  %a = load <8 x i64>, <8 x i64>* %x
  %b = ashr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
  %c = trunc <8 x i64> %b to <8 x i32>
  ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_sign:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT: vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT: retq
  %a = load <16 x i32>, <16 x i32>* %x
  %b = ashr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
  %c = trunc <16 x i32> %b to <16 x i16>
  ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-AVX512: # %bb.0:
; CHECK-AVX512-NEXT: vpsraw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT: vpsraw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT: vpackswwb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-VBMI: # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa {[*:#+] } ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:  vperm Ib b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:  retq
%a = load <32 x i16>, <32 x i16>* %x
%b = ashr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8> %c = trunc <32 x i16> %b to <32 x i8>
ret <32 x i8> %c
}
define void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL:  zext_v16i8_v16i64:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vpmovzxvw {{.*#+}} ymm1 =
xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,
xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
; CHECK-NEXT:  vpmovzxq {{.*#+}} ymm2 =
xmm2[0],zero,zero,zero,xmm2[1],zero,zero,zero,xmm2[2],zero,zero,zero,xmm2[3],zero,zero,zero
; CHECK-NEXT:  vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:  vpsubfd {[*:#+]} xmm3 = xmm1[2,3,0,1]
; CHECK-NEXT:  vpmovzxqw {[*:#+]} ymm3 =
xmm3[0],zero,zero,xmm3[1],zero,zero,zero,xmm3[2],zero,zero,zero,xmm3[3],zero,zero,zero
; CHECK-NEXT:  vpmovzxqw {[*:#+]} ymm1 =
xmm1[0],zero,zero,xmm1[1],zero,zero,zero,xmm1[2],zero,zero,zero,xmm1[3],zero,zero,zero
; CHECK-NEXT:  vpmovzxwb {[*:#+]} ymm0 =
xmm0[0],zero,zero,zero,zero,xmm0[1],zero,zero,zero,zero,zero,zero,xmm0[2],zero,zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT:  vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:  vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT:  vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%a = zext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}
define void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL:  sext_v16i8_v16i64:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vpmovzxbw {[*:#+]} ymm1 =
xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,
xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
; CHECK-NEXT:  vpsubfd {[*:#+]} xmm2 = xmm1[2,3,0,1]
; CHECK-NEXT:  vpmovzxqw {[*:#+]} ymm2 =
xmm2[0],zero,zero,zero,xmm2[1],zero,zero,zero,xmm2[2],zero,zero,zero,xmm2[3],zero,zero,zero
; CHECK-NEXT:  vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:  vpsubfd {[*:#+]} xmm3 = xmm1[2,3,0,1]
; CHECK-NEXT:  vpmovzxqw {[*:#+]} ymm3 =
xmm3[0],zero,zero,xmm3[1],zero,zero,zero,xmm3[2],zero,zero,zero,xmm3[3],zero,zero,zero
; CHECK-NEXT:  vpmovzxwb {[*:#+]} ymm0 =
xmm0[0],zero,zero,zero,zero,xmm0[1],zero,zero,zero,zero,zero,zero,xmm0[2],zero,zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT:  vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:  vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT:  vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%a = zext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm2
; CHECK-NEXT:  vpshufd {{.*#+}} %xmm3 = %xmm2[2,3,0,1]
; CHECK-NEXT:  vpmovsxwq %xmm3, %ymm3
; CHECK-NEXT:  vpmovsxwq %xmm0, %ymm0
; CHECK-NEXT:  vpmovsxwq %xmm2, %ymm2
; CHECK-NEXT:  vmovdqa %ymm2, 64(%rdi)
; CHECK-NEXT:  vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:  vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%a = sext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}
define void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL:  vselect_split_v8i16_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpcmpeqw %xmm1, %xmm0, %k1
; CHECK-NEXT:  kshiftrb $4, %k1, %k2
; CHECK-NEXT:  vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:  vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <8 x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i16> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}
define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL:  vselect_split_v8i32_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpcmpeqd %ymm1, %ymm0, %k1
; CHECK-NEXT:  kshiftrb $4, %k1, %k2
; CHECK-NEXT:  vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:  vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
define void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: vselect_split_v16i8_setcc:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT:  vpcmpeqb %xmm1, %xmm0, %k1
    ; CHECK-NEXT:  kshiftrw $8, %k1, %k2
    ; CHECK-NEXT:  vmovdqa32 32(%rdi), %ymm3 {%k2}
    ; CHECK-NEXT:  vmovdqa32 (%rdi), %ymm2 {%k1}
    ; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %x = load <16 x i32>, <16 x i32>* %p
    %y = load <16 x i32>, <16 x i32>* %q
    %a = icmp eq <16 x i8> %s, %t
    %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
    store <16 x i32> %b, <16 x i32>* %r
    ret void
}

define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: vselect_split_v16i16_setcc:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT:  vpcmpeqw %ymm1, %ymm0, %k1
    ; CHECK-NEXT:  kshiftrw $8, %k1, %k2
    ; CHECK-NEXT:  vmovdqa32 32(%rdi), %ymm3 {%k2}
    ; CHECK-NEXT:  vmovdqa32 (%rdi), %ymm2 {%k1}
    ; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %x = load <16 x i32>, <16 x i32>* %p
    %y = load <16 x i32>, <16 x i32>* %q
    %a = icmp eq <16 x i8> %s, %t
    %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
    store <16 x i32> %b, <16 x i32>* %r
    ret void
}
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1>, %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}
define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_packus_v16i32_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vpackusdw 32(%rdi), %ymm0, %ymm0
    ; CHECK-NEXT:  vpermq {{.*#+}} %ymm0 = %ymm0[0,2,1,3]
    ; CHECK-NEXT:  vpmovuswb %ymm0, %xmm0
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %c = select <16 x i1>, %b, <16 x i32>, %a, <16 x i32>
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1>, %d, <16 x i32>, %c, <16 x i32> zeroinitializer
    %f = trunc <16 x i32> %e to <16 x i8>
    ret <16 x i8> %f
}
define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vpackusdw 32(%rdi), %ymm0, %ymm0
    ; CHECK-NEXT:  vpermq {{.*#+}} %ymm0 = %ymm0[0,2,1,3]
    ; CHECK-NEXT:  vpmovuswb %ymm0, (%rsi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %c = select <16 x i1>, %b, <16 x i32>, %a, <16 x i32>
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1>, %d, <16 x i32>, %c, <16 x i32> zeroinitializer
    %f = trunc <16 x i32> %e to <16 x i8>
    store <16 x i8> %f, <16 x i8>* %q
    ret void
}
define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: v64i1_argument_return:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: retq
    ret <64 x i1> %x
}

define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: v64i1_shuffle:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm1
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm0
    ; CHECK-NEXT: vptestnmb %ymm1, %ymm1, %k0
    ; CHECK-NEXT: kshiftrd $1, %k0, %k1
    ; CHECK-NEXT: movq $-3, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1
    ; CHECK-NEXT: kshiftrq $63, %k0, %k1
    ; CHECK-NEXT: kandq %k2, %k1
    ; CHECK-NEXT: korq %k2, %k1
    ; CHECK-NEXT: movq $-5, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1
    ; CHECK-NEXT: kshiftrq $62, %k2, %k2
    ; CHECK-NEXT: korq %k2, %k1
    ; CHECK-NEXT: movq $-9, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1
    ; CHECK-NEXT: kshiftrq $61, %k2, %k2
    ; CHECK-NEXT: korq %k2, %k1
    ; CHECK-NEXT: movq $-17, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1
    ; CHECK-NEXT: kshiftrq $60, %k2, %k2
    ; CHECK-NEXT: korq %k2, %k1
    ; CHECK-NEXT: movq $-33, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1
    ; CHECK-NEXT: kshiftrq $63, %k2, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $51, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-8193, %rax # imm = 0xDFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $12, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $50, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-16385, %rax # imm = 0xBFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $15, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $49, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-32769, %rax # imm = 0xFFFF7FFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $14, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $48, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-65537, %rax # imm = 0xFFEFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $17, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $46, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-131073, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $16, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $45, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-262145, %rax # imm = 0xFFFBBFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $19, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $45, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-524289, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1

; CHECK-NEXT:  kshiftrd $18, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $44, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-1048577, %rax # imm = 0xFFEFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $21, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $43, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-2097153, %rax # imm = 0xFFFDFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $20, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $42, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-4194305, %rax # imm = 0xFFFDFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $23, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $41, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-8388609, %rax # imm = 0xFFF7FFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $22, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $40, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-16777217, %rax # imm = 0xFEFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $25, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $39, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-33554433, %rax # imm = 0xFDFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $24, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $38, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-67108865, %rax # imm = 0xFBFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $27, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $37, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-134217729, %rax # imm = 0xF7FFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $26, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $36, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-268435457, %rax # imm = 0xEFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $29, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $35, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-536870913, %rax # imm = 0xDFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $28, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $34, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-1073741825, %rax # imm = 0xBFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $31, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $33, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movabsq $-2147483649, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $30, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $32, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movabsq $-4294967297, %rax # imm = 0xFFFFFFFEFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k2
; CHECK-NEXT:  vptestnmb %ymm0, %ymm0, %k1
; CHECK-NEXT:  kshiftrd $30, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k0, %k0
; CHECK-NEXT:  kshiftrq $32, %k0, %k0
; CHECK-NEXT:  korq %k0, %k2, %k0
; CHECK-NEXT:  movabsq $-4294967297, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $1, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $31, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
: CHECK-NEXT: movabsq $-8589934593, %rax # imm = 0xFFFFFFFFFFFFFFFF
: CHECK-NEXT: kmovq %rax, %k2
: CHECK-NEXT: kandq %k2, %k0, %k0
: CHECK-NEXT: kshiftrq $63, %k1, %k2
: CHECK-NEXT: kshiftrq $30, %k2, %k2
: CHECK-NEXT: korq %k2, %k0, %k0
: CHECK-NEXT: movabsq $-17179869185, %rax # imm = 0xFFFFFFFFBFFFFFFFFF
: CHECK-NEXT: kmovq %rax, %k2
: CHECK-NEXT: kandq %k2, %k0, %k0
: CHECK-NEXT: kshiftrq $63, %k2, %k2
: CHECK-NEXT: kshiftrq $29, %k2, %k2
: CHECK-NEXT: kshiftrq $30, %k2, %k2
: CHECK-NEXT: korq %k2, %k0, %k0
: CHECK-NEXT: movabsq $-34359738369, %rax # imm = 0xFFFFFFFFFFFFFFFF
: CHECK-NEXT: kmovq %rax, %k2
: CHECK-NEXT: kandq %k2, %k0, %k0
: CHECK-NEXT: kshiftrq $63, %k2, %k2
: CHECK-NEXT: kshiftrq $28, %k2, %k2
: CHECK-NEXT: kshiftrq $29, %k2, %k2
: CHECK-NEXT: korq %k2, %k0, %k0
: CHECK-NEXT: movabsq $-68719476737, %rax # imm = 0xFFFFFFFFEFFFFFFF
: CHECK-NEXT: kmovq %rax, %k2
: CHECK-NEXT: kandq %k2, %k0, %k0
: CHECK-NEXT: kshiftrq $63, %k2, %k2
: CHECK-NEXT: kshiftrq $27, %k2, %k2
: CHECK-NEXT: kshiftrq $28, %k2, %k2
: CHECK-NEXT: korq %k2, %k0, %k0
: CHECK-NEXT: movabsq $-137438953473, %rax # imm = 0xFFFFFFFFDFFFFFFFFF
: CHECK-NEXT: kmovq %rax, %k2
: CHECK-NEXT: kandq %k2, %k0, %k0
: CHECK-NEXT: kshiftrq $63, %k2, %k2
: CHECK-NEXT: kshiftrq $26, %k2, %k2
: CHECK-NEXT: kshiftrq $27, %k2, %k2
: CHECK-NEXT: korq %k2, %k0, %k0
: CHECK-NEXT: movabsq $-274877906945, %rax # imm = 0xFFFFFFFFBFFFFFFFFF
: CHECK-NEXT: kmovq %rax, %k2
: CHECK-NEXT: kandq %k2, %k0, %k0
: CHECK-NEXT: kshiftrq $63, %k2, %k2
: CHECK-NEXT: kshiftrq $25, %k2, %k2
: CHECK-NEXT: kshiftrq $26, %k2, %k2
: CHECK-NEXT: korq %k2, %k0, %k0
: CHECK-NEXT: movabsq $-549755813889, %rax # imm = 0xFFFFFFFF7FFFFFFFFF
: CHECK-NEXT: kmovq %rax, %k2
: CHECK-NEXT: kandq %k2, %k0, %k0
: CHECK-NEXT: kshiftrq $63, %k2, %k2
: CHECK-NEXT: kshiftrq $24, %k2, %k2
: CHECK-NEXT: kshiftrq $25, %k2, %k2
: CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-140737488355329, %rax # imm = 0xFFFF7FFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $14, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $16, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-281474976710657, %rax # imm = 0xFFFFEFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $17, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $15, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-562949953421313, %rax # imm = 0xFFEFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $16, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $14, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-1125899906842625, %rax # imm = 0xFFFFBFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $19, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $13, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-2251799813685249, %rax # imm = 0xFFF7FFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $21, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $11, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-4503599627370497, %rax # imm = 0xFFF9FFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $20, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $10, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-9007199254740993, %rax # imm = 0xFFF7FFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $20, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $I, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $3, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-2305843009213693953, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $28, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $2, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-4611686018427387905, %rax # imm = 0xBFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $31, %k1, %k2
; CHECK-NEXT:  kshiftlq $62, %k2, %k2
; CHECK-NEXT:  kshiftrq $2, %k2, %k0
; CHECK-NEXT:  kshiftlq %k2, %k0, %k0
; CHECK-NEXT:  kmovq %k0, %k0
; CHECK-NEXT:  kshiftrd $30, %k1, %k1
; CHECK-NEXT:  kshiftlq %k1, %k0, %k0
; CHECK-NEXT:  kshiftlq %k1, %k1;
; CHECK-NEXT:  vmovdqu8 %ymm1, (%rsi) {%k1}
; CHECK-NEXT:  kshiftrq $32, %k1, %k1
; CHECK-NEXT:  vmovdqu8 %ymm0, 32(%rsi) {%k1}
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
entry:
  %a = load <64 x i8>, <64 x i8>* %x
  %b = icmp eq <64 x i8> %a, zeroinitializer
  %shuf = shufflevector <64 x i1> %b, undef, <64 x i32> <i32 1, i32 0, i32 2, i32 3, i32 2, i32 5, i32 4, i32 7, i32 6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32 22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39, i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32 55, i32 54, i32 57, i32 56, i32 59, i32 58, i32 61, i32 60, i32 63, i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 1, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>* i32, <64 x i1>)

@mem64_dst = global i64 0, align 8
@mem64_src = global i64 0, align 8
define i32 @v64i1_interleave() "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_interleave:
; CHECK:    # %bb.0:
; CHECK-NEXT:  kmovq {{.*}}(%rip), %k0
; CHECK-NEXT:  #APP
; CHECK-NEXT:  #NO_APP
; CHECK-NEXT:  kmovq %k0, {{.*}}(%rip)
define void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: cmp_v8i64_sext:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vmovdqa (rsi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(rsi), %ymm1
    ; CHECK-NEXT: vpcmpgtq 32(rdi), %ymm1, %ymm1
    ; CHECK-NEXT: vpcmpgtq (rdi), %ymm0, %ymm0
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %x = load <8 x i64>, <8 x i64>* %xptr
    %y = load <8 x i64>, <8 x i64>* %yptr
    %cmp = icmp slt <8 x i64> %x, %y
    %ext = sext <8 x i1> %cmp to <8 x i64>
    store <8 x i64> %ext, <8 x i64>* %zptr
    ret void
}
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: var_rotate_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa {{.*#+}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
    ; CHECK-NEXT:    vpsubb %xmm1, %xmm2, %ymm2
    ; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm1 =
    ; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm0 =
    ; CHECK-NEXT:    vpsllwv %ymm1, %ymm0, %ymm1
    ; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm2 =
    ; CHECK-NEXT:    vpsrlwv %ymm2, %ymm0, %ymm0
    ; CHECK-NEXT:    vpor %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq

    %b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
    %shl = shl <16 x i8> %a, %b
    %lshr = lshr <16 x i8> %a, %b
    %or = or <16 x i8> %shl, %lshr
    ret <16 x i8> %or
}

define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: var_rotate_v32i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpsllw %ymm1, %ymm0, %ymm1
    ; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm2 =
    ; CHECK-NEXT:    vpsrlw %ymm2, %ymm0, %ymm0
    ; CHECK-NEXT:    vpor %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    vpmovwb %ymm0, %xmm0
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq

    %b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
    %shl = shl <16 x i8> %a, %b
    %lshr = lshr <16 x i8> %a, %b
    %or = or <16 x i8> %shl, %lshr
    ret <16 x i8> %or
}
; CHECK-NEXT: vpaddb %ymm0, %ymm0, %ymm3
; CHECK-NEXT: vpternlogq $248, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT: vpaddb %ymm1, %ymm1, %ymm1
; CHECK-NEXT: vblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT: retq
%b8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
%shl = shl <32 x i8> %a, %b
%lshr = lshr <32 x i8> %a, %b8
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}
define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256"
{
; CHECK-LABEL: splatvar_rotate_v32i8:
; CHECK:       # %bb.0:
; CHECK-NEXT: vpbroadcastb %xmm1, %xmm1
; CHECK-NEXT: vpand {{.*}}(%rip), %xmm1, %xmm1
; CHECK-NEXT: vpmovzxbq {{.*#+}} xmm2 =
; CHECK-NEXT: vpsllw %xmm2, %ymm0, %ymm3
; CHECK-NEXT: vmovdqa {{.*#+}} xmm4 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT: vpsrlw %xmm2, %xmm0, %ymm2
; CHECK-NEXT: vpbroadcastb %xmm0, %ymm0
; CHECK-NEXT: vpternlogq $236, %ymm5, %ymm2, %ymm0
; CHECK-NEXT: retq
%splat = shufflevector <32 x i8> %b, <32 x i8> undef, <32 x i32> zeroinitializer
%splat8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %splat
%shl = shl <32 x i8> %a, %splat
%lshr = lshr <32 x i8> %a, %splat8
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}
define <32 x i8> @constant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256"
{
; CHECK-AVX512-LABEL: constant_rotate_v32i8:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT: vpsllw $4, %ymm0, %ymm1
; CHECK-AVX512-NEXT: vpand {{.*}}(%rip), %ymm1, %ymm1
; CHECK-AVX512-NEXT: vbroadcasti128 {{.*#*}} ymm2 = [8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]
; CHECK-AVX512-NEXT: # ymm2 = mem[0,1,0,1]
; CHECK-AVX512-NEXT: vpblendvb %ymm2, %ymm1, %ymm0, %ymm1
; CHECK-AVX512-NEXT: vpsllw $2, %ymm1, %ymm3
; CHECK-AVX512-NEXT: vpand {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT: vpaddb %ymm2, %ymm2, %ymm2
; CHECK-AVX512-NEXT: vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpaddb %ymm1, %ymm1, %ymm3
; CHECK-AVX512-NEXT: vpaddb %ymm2, %ymm2, %ymm2
; CHECK-AVX512-NEXT: vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#*}} ymm3 = ymm0[8],ymm2[8],ymm0[9],ymm2[9],ymm0[10],ymm2[10],ymm0[11],ymm2[11],ymm0[12],ymm2[12],ymm0[13],ymm2[13],ymm0[14],ymm2[14],ymm0[15],ymm2[15],ymm0[16],ymm2[16],ymm0[17],ymm2[17],ymm0[18],ymm2[18],ymm0[19],ymm2[19],ymm0[20],ymm2[20],ymm0[21],ymm2[21],ymm0[22],ymm2[22],ymm0[23],ymm2[23]
; CHECK-AVX512-NEXT: vpsllw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT: vpsrlw $8, %ymm3, %ymm3
; CHECK-AVX512-NEXT: vpunpckldbw {{.*#*}} ymm0 = ymm0[0],ymm2[0],ymm0[1],ymm2[1],ymm0[2],ymm2[2],ymm0[3],ymm2[3],ymm0[4],ymm2[4],ymm0[5],ymm2[5],ymm0[6],ymm2[6],ymm0[7],ymm2[7],ymm0[8],ymm2[8],ymm0[9],ymm2[9],ymm0[10],ymm2[10],ymm0[11],ymm2[11],ymm0[12],ymm2[12],ymm0[13],ymm2[13],ymm0[14],ymm2[14],ymm0[15],ymm2[15],ymm0[16],ymm2[16],ymm0[17],ymm2[17],ymm0[18],ymm2[18],ymm0[19],ymm2[19],ymm0[20],ymm2[20],ymm0[21],ymm2[21],ymm0[22],ymm2[22],ymm0[23],ymm2[23]
; CHECK-AVX512-NEXT: vpsllw {{.*}}(%rip), %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpsrlw $8, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpor %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT: retq

; CHECK-VBMI-LABEL: constant_rotate_v32i8:
; CHECK-VBMI: # %bb:0
; CHECK-VBMI-NEXT: vpsllw $4, %ymm0, %ymm1
; CHECK-VBMI-NEXT: vpand {{.*}}(%rip), %ymm1, %ymm1
; CHECK-VBMI-NEXT: vbroadcasti128 {{.*#*}} ymm2 = [8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]
; CHECK-VBMI-NEXT: # ymm2 = mem[0,1,0,1]
; CHECK-VBMI-NEXT: vpblendvb %ymm2, %ymm1, %ymm0, %ymm1
; CHECK-VBMI-NEXT: vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT: vpand {{.*}}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT: vpaddb %ymm2, %ymm2, %ymm2
; CHECK-VBMI-NEXT: vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpaddb %ymm1, %ymm1, %ymm3
; CHECK-VBMI-NEXT: vpaddb %ymm2, %ymm2, %ymm2
; CHECK-VBMI-NEXT: vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#*}} ymm3 =
ymm0[8], ymm2[8], ymm0[9], ymm2[9], ymm0[10], ymm2[10], ymm0[11], ymm2[11], ymm0[12], ymm2[12], ymm0[13], ymm2[13], ymm0[14], ymm2[14], ymm0[15], ymm2[15], ymm0[24], ymm2[24], ymm0[25], ymm2[25], ymm0[26], ymm2[26], ymm0[27], ymm2[27], ymm0[28], ymm2[28], ymm0[29], ymm2[29], ymm0[30], ymm2[30], ymm0[31], ymm2[31]

; CHECK-VBMI-NEXT: vpsllv {{.*}}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT: vpuncklbw {{.*#+}} ymm0 = ymm0[0], ymm0[1], ymm0[2], ymm0[3], ymm0[4], ymm0[5], ymm0[6], ymm0[7], ymm0[8], ymm0[9], ymm0[10], ymm0[11], ymm0[12], ymm0[13], ymm0[14], ymm0[15], ymm0[16], ymm0[17], ymm0[18], ymm0[19], ymm0[20], ymm0[21], ymm0[22], ymm0[23], ymm0[24], ymm0[25], ymm0[26], ymm0[27], ymm0[28], ymm0[29], ymm0[30], ymm0[31], ymm2[31]

; CHECK-VBMI-NEXT: vpsllw {{.*}}(%rip), %ymm0, %ymm0
; CHECK-VBMI-NEXT: vminvdqa {{.*#+}} ymm2 = [1, 3, 5, 7, 11, 13, 15, 33, 35, 37, 39, 41, 43, 45, 47, 19, 21, 23, 25, 27, 29, 31, 49, 51, 53, 55, 57, 59, 61, 63]
; CHECK-VBMI-NEXT: vpermi2b %ymm3, %ymm0, %ymm2
; CHECK-VBMI-NEXT: vpor %ymm2, %ymm1, %ymm0
; CHECK-VBMI-NEXT: retq

%shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 9, i8 10, i8 11, i8 12, i8 13, i8 14, i8 15, i8 16>
%lshr = lshr <32 x i8> %a, <i8 16, i8 15, i8 14, i8 13, i8 12, i8 11, i8 10, i8 9, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or

define <32 x i8> @splatconstant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: splatconstant_rotate_v32i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vpsllw $4, %ymm0, %ymm1
; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm0
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
; CHECK-NEXT: retq
%shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 9, i8 10, i8 11, i8 12, i8 13, i8 14, i8 15, i8 16, i8 17, i8 18, i8 19, i8 20, i8 21, i8 22, i8 23, i8 24, i8 25, i8 26, i8 27, i8 28, i8 29, i8 30, i8 31, i8 32>
%lshr = lshr <32 x i8> %a, <i8 32, i8 31, i8 30, i8 29, i8 28, i8 27, i8 26, i8 25, i8 24, i8 23, i8 22, i8 21, i8 20, i8 19, i8 18, i8 17, i8 16, i8 15, i8 14, i8 13, i8 12, i8 11, i8 10, i8 9, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}

define <32 x i8> @splatconstant_rotate_mask_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: splatconstant_rotate_mask_v32i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vpsllw $4, %ymm0, %ymm1
; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm0
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
; CHECK-NEXT: retq
%shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 9, i8 10, i8 11, i8 12, i8 13, i8 14, i8 15, i8 16, i8 17, i8 18, i8 19, i8 20, i8 21, i8 22, i8 23, i8 24, i8 25, i8 26, i8 27, i8 28, i8 29, i8 30, i8 31, i8 32>
%lshr = lshr <32 x i8> %a, <i8 32, i8 31, i8 30, i8 29, i8 28, i8 27, i8 26, i8 25, i8 24, i8 23, i8 22, i8 21, i8 20, i8 19, i8 18, i8 17, i8 16, i8 15, i8 14, i8 13, i8 12, i8 11, i8 10, i8 9, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}
%lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%rmask = and <32 x i8> %lshr, <i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55>
%lmask = and <32 x i8> %shl, <i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33>
%or = or <32 x i8> %lmask, %rmask
ret <32 x i8> %or
}
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University of Illinois at Urbana-Champaign

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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
lldbCore
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Albert Pretorius <pretoalb@gmail.com>
Arne Beer <arne@twobeer.de>
Billy Robert O'Neal III <billy.oneal@gmail.com> <bion@microsoft.com>
Chris Kennelly <ckennelly@google.com> <ckennelly@ckennelly.com>
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Deniz Evrenci <denizevreneci@gmail.com>
Dominic Hamon <dma@stripysock.com> <dominic@gmail.com>
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Eric Fiselier <eric@efcs.ca>
Eugene Zhuk <eugene.zhuk@gmail.com>
Evgeny Safronov <division494@gmail.com>
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Ismael Jimenez Martinez <ismael.jimenez.martinez@gmail.com>
Jern-Kuan Leong <jernkuan@gmail.com>
JianXiong Zhou <zhoujianxiong2@gmail.com>
Joao Paulo Magalhaes <joaopmagalhaes@gmail.com>
target triple = "hexagon"

%struct.0 = type [ i8*, i8, %union.anon.0 ]
%union.anon.0 = type [ i8* ]

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
  br label %while.body

while.body: ; preds = %exit,2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
i32 2, label %sw.bb3.i  
]

sw.bb.i: ; preds = %while.body
unreachable

sw.bb3.i: ; preds = %while.body
unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [  
i32 1, label %sw.bb.i17  
i32 2, label %sw.bb3.i20  
]

sw.bb.i17: ; preds = %exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=4 -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_CGSCC_NPM,NOT_CGSCC_OPM,NOT_TUNIT_NPM.IS__TUNIT____.IS_______OPM.IS__TUNIT_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=3 -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM.IS__TUNIT____.IS_______NP M.IS__TUNIT_NPM
; RUN: opt -attributor-cgsc -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_NPM.IS__CGSCC____.IS_______OP M.IS__CGSCC_OPM
Test that we only promote arguments when the caller/callee have compatible function attributes.

target triple = "x86_64-unknown-linux-gnu"

define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    ...
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
    ...
}
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__UNIT_OPM-NEXT: call fastcc void
callees_avx512_legal12_prefer12_call_avx512_legal12_prefer12(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP1]])
; IS__UNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__UNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__UNIT_OPM-NEXT: ret void
; IS__UNIT_NPM-LABEL: define {{[^@]+}} @avx512_prefer12_call_avx512_prefer512
callees_avx512_legal12_prefer12_call_avx512_legal12_prefer12
; IS__UNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__UNIT_NPM-NEXT: bb:
; IS__UNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__UNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__UNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__UNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__UNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__UNIT_NPM-NEXT: call fastcc void
callees_avx512_legal12_prefer12_call_avx512_legal12_prefer12(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__UNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__UNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__UNIT_NPM-NEXT: ret void
; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_prefer12_call_avx512_prefer512
callees_avx512_legal12_prefer12_call_avx512_legal12_prefer12
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
callees_avx512_legal12_prefer12_call_avx512_legal12_prefer12(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
; IS__CGSCC_NPM-LABEL: define {{[^@]+}} @avx512_prefer12_call_avx512_prefer512
callees_avx512_legal12_prefer12_call_avx512_legal12_prefer12
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64

dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)

; IS__CGSCC_NPM-NEXT: call fastcc void
calleee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])

; IS__CGSCC_NPM-NEXT: [[TMP4:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

; IS__TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:.*]], <8 x i64> [[TMP0:.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* %arg) #1 {
  @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* noalias nocapture nonnull readonly align 64 dereferenceable(64) [][TMP2], <8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [][TMP2], <8 x i64>* nocapture nonfree nonnull readonly align 64 dereferenceable(64) [][TMP2])
  @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* noalias nocapture nonnull readonly align 64 dereferenceable(64) [][TMP2], <8 x i64>* nocapture nonfree nonnull readonly align 64 dereferenceable(64) [][TMP2])
  @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* noalias nocapture nonnull readonly align 64 dereferenceable(64) [][TMP2], <8 x i64>* nocapture nonfree nonnull readonly align 64 dereferenceable(64) [][TMP2])
  call fastcc void
}

dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM-LABEL: define ( [[^@]+]) @avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly
align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
;
; NOT_TUNIT_NPM-LABEL: define
([[^@]+]) @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT:  bb:
; NOT_TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:  ret void
;
; IS__TUNIT_NPM-LABEL: define
([[^@]+]) @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) {0 {
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512)

bb:
%smp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512)

bb:
%smp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
; IS__TUNIT_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nullwriteonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT:    [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:    ret void
;
; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nullwriteonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nullwriteonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void
;
; IS__CGSCC_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nullwriteonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nullwriteonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

; IS_TUNIT_NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS_TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; IS_TUNIT_NPM-NEXT: bb:
; IS_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS_TUNIT_NPM-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {

; IS_TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS_TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS_TUNIT_OPM-NEXT: bb:
; IS_TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS_TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS_TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS_TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS_TUNIT_OPM-NEXT: call fastcc void
define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofreenonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {

;
; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:  ret void
;
; IS__TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #3 {
  bb:
    %arg1_priv = alloca <8 x i64>, align 64
    store <8 x i64> %arg0, <8 x i64>* %arg1_priv, align 64
    ret void
  }

; This should promote
define internal fastcc void @callee_avx2 Legal512_prefer256_call_avx2 Legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #3 {

}
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
; IS__CGSCC_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP2]] to i8*
; IS__CGSCC_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:    call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly
align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64)
[[TMP3]])
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:    call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:    call fastcc void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #4 {

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

; IS__TUNIT_NPM-NEXT:    call fastcc void
@calllee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:    ret void
;
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT:    bb:
; IS__CGSCC_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:    call fastcc void
@calllee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void
;
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT:    bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:    call fastcc void
@calllee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @calllee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

: Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked Legal.

; Verify that fptosi(42.1) isn't simplified when the rounding mode is unknown.
; Verify that no gross errors happen.
; CHECK-LABEL: @f20
; COMMON: cfdctsiz
define i32 @f20(double %a) strictfp {
  entry:
  %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1, metadata !"fpexcept.strict")
  ret i32 %result
}
@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)

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==============================================================================
; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,AVX512VL256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,AVX512VL512
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,SKX512

define void @zext256() "min-legal-vector-width"="256" {
  \VEC256-LABEL: '\zext256'
  \VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: \%A = zext <8 x i16> undef to <8 x i64>
  \VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: \%B = zext <8 x i32> undef to <8 x i64>
  \VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: \%C = zext <16 x i8> undef to <16 x
define void @zext512() "min-legal-vector-width"="512" {  
  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
  %E = zext <32 x i8> undef to <32 x i16>
  ret void
}

Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>

Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL256-LABEL: 'zext512'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> unde to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> unde to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> unde to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> unde to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL512-LABEL: 'zext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> unde to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> unde to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> unde to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> unde to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> unde to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> unde to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> unde to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> unde to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> unde to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> unde to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX512-LABEL: 'zext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> unde to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> unde to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> unde to <16 x

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i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
 ; VEC256-LABEL: 'sext256'
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 ; AVX512VL512-LABEL: 'sext256'
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 ; SKX512-LABEL: 'sext256'
 ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'sext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ret void
}

define void @sext512() "min-legal-vector-width"="512" {
    ; AVX512VL256-LABEL: 'sext512'
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ret void
}

define void @sext512() "min-legal-vector-width"="512" {
    ; AVX512VL512-LABEL: 'sext512'
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ret void
}
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX512-LABEL: 'sext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
define void @trunc256() "min-legal-vector-width"="256" {
  ; AVX-LABEL: 'trunc256'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; AVX512VL256-LABEL: 'trunc256'
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; AVX512VL512-LABEL: 'trunc256'
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; SKX256-LABEL: 'trunc256'
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'trunc256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'zext256_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = zext <16 x i1> undef to <16 x
AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>

AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>

AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>

AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL256-LABEL: 'zext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V2i8 = zext <2 x i1> undef to
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i16>
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; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'zext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'zext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: ret i32 undef

; %V2i64 = zext <2 x i1> undef to <2 x i64>
%V4i64 = zext <4 x i1> undef to <4 x i64>
%V8i64 = zext <8 x i1> undef to <8 x i64>

%V2i32 = zext <2 x i1> undef to <2 x i32>
%V4i32 = zext <4 x i1> undef to <4 x i32>
%V8i32 = zext <8 x i1> undef to <8 x i32>
%V16i32 = zext <16 x i1> undef to <16 x i32>

%V2i16 = zext <2 x i1> undef to <2 x i16>
%V4i16 = zext <4 x i1> undef to <4 x i16>
%V8i16 = zext <8 x i1> undef to <8 x i16>
%V16i16 = zext <16 x i1> undef to <16 x i16>
%V32i16 = zext <32 x i1> undef to <32 x i16>
%V2i8 = zext <2 x i1> undef to <2 x i8>
%V4i8 = zext <4 x i1> undef to <4 x i8>
%V8i8 = zext <8 x i1> undef to <8 x i8>
%V16i8 = zext <16 x i1> undef to <16 x i8>
%V32i8 = zext <32 x i1> undef to <32 x i8>
%V64i8 = zext <64 x i1> undef to <64 x i8>
ret i32 undef
}

define i32 @sext256_vXi1() "min-legal-vector-width"="256" {
 ; AVX-LABEL: 'sext256_vXi1'
 ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'sext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 42 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'sext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef
to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef
to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef
to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef
to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef
to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef
to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef
to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef
to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef
to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %I8 = sext i1 undef to i8
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> undef
to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = sext <4 x i1> undef
to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> undef
to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = sext <16 x i1> undef
to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = sext <32 x i1> undef
to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V64i8 = sext <64 x i1> undef
to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'sext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; %I64 = sext i1 undef to i64
%V2i64 = sext <2 x i1> undef to <2 x i64>
%V4i64 = sext <4 x i1> undef to <4 x i64>
%V8i64 = sext <8 x i1> undef to <8 x i64>
%I32 = sext i1 undef to i32
%V2i32 = sext <2 x i1> undef to <2 x i32>
%V4i32 = sext <4 x i1> undef to <4 x i32>
%V8i32 = sext <8 x i1> undef to <8 x i32>
%V16i32 = sext <16 x i1> undef to <16 x i32>
%I16 = sext i1 undef to i16
%V2i16 = sext <2 x i1> undef to <2 x i16>
%V4i16 = sext <4 x i1> undef to <4 x i16>
%V8i16 = sext <8 x i1> undef to <8 x i16>
%V16i16 = sext <16 x i1> undef to <16 x i16>
%V32i16 = sext <32 x i1> undef to <32 x i16>

%I8 = sext i1 undef to i8
%V2i8 = sext <2 x i1> undef to <2 x i8>
%V4i8 = sext <4 x i1> undef to <4 x i8>
%V8i8 = sext <8 x i1> undef to <8 x i8>
%V16i8 = sext <16 x i1> undef to <16 x i8>
%V32i8 = sext <32 x i1> undef to <32 x i8>
%V64i8 = sext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
  ; AVX-LABEL: 'trunc_vXi1'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
unde to <32 x i1>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V64i16 = trunc <64 x i16> unde to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> unde to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> unde to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> unde to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = trunc <16 x i8> unde to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i8 = trunc <16 x i8> unde to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 17 for instruction: %V32i8 = trunc <32 x i8> unde to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 34 for instruction: %V64i8 = trunc <64 x i8> unde to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 unde

; AVX512VL512-LABEL: 'trunc_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> unde to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> unde to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> unde to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> unde to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64> unde to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64> unde to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> unde to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> unde to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> unde to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> unde to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32> unde to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32> unde to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> unde to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> unde to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> unde to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 14 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'trunc_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'trunc_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; %V2i64 = trunc <2 x i64> undef to <2 x i1>
%V4i64 = trunc <4 x i64> undef to <4 x i1>
%V8i64 = trunc <8 x i64> undef to <8 x i1>
%V16i64 = trunc <16 x i64> undef to <16 x i1>
%V32i64 = trunc <32 x i64> undef to <32 x i1>
%V64i64 = trunc <64 x i64> undef to <64 x i1>

%V2i32 = trunc <2 x i32> undef to <2 x i1>
%V4i32 = trunc <4 x i32> undef to <4 x i1>
%V8i32 = trunc <8 x i32> undef to <8 x i1>
%V16i32 = trunc <16 x i32> undef to <16 x i1>
%V32i32 = trunc <32 x i32> undef to <32 x i1>
%V64i32 = trunc <64 x i32> undef to <64 x i1>

%V2i16 = trunc <2 x i16> undef to <2 x i1>
%V4i16 = trunc <4 x i16> undef to <4 x i1>
%V8i16 = trunc <8 x i16> undef to <8 x i1>
%V16i16 = trunc <16 x i16> undef to <16 x i1>
%V32i16 = trunc <32 x i16> undef to <32 x i1>
%V64i16 = trunc <64 x i16> undef to <64 x i1>

%V2i8 = trunc <2 x i8> undef to <2 x i1>
%V4i8 = trunc <4 x i8> undef to <4 x i1>
%V8i8 = trunc <8 x i8> undef to <8 x i1>
%V16i8 = trunc <16 x i8> undef to <16 x i1>
%V32i8 = trunc <32 x i8> undef to <32 x i1>
%V64i8 = trunc <64 x i8> undef to <64 x i1>

ret i32 undef
}

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1.1904 liblems-utils 1.26-1

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# PLY (Python Lex-Yacc) Version 3.11


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Introduction
============

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

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

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

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

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

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

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

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

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

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

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

```
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.
The file doc/ply.html contains complete documentation on how to use the system.

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

A simple example is found at the end of this document

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

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

    http://www.dabeaz.com/ply

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

The GitHub page for PLY can be found at:

    https://github.com/dabeaz/ply

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

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

Acknowledgments
==================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-). The CHANGES file acknowledges those who have contributed patches.

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

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

Example
========

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

```python
# calc.py
# A simple calculator with variables.

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

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

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

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

def t_error(t):
```

```
print("Illegal character '%s' \n t.value[0])
t.lexer.skip(1)

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

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

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

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

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

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

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

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

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

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

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

import ply.yacc as yacc
yacc.yacc()

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

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

-- Dave

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

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1.1910 golang-migrate-migrate 4.7.0

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1.1911 go-autorest 0.11.15

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1.1917 linux-libc-dev 4.15.0-144.148

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1.1931 cachetools 4.2.2
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1.1932 stringio 0.0.2

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# StringIO

[!][Build Status](https://travis-ci.org/ruby/stringio.svg?branch=master)

Pseudo `IO` class from/to `String`.

This library is based on MoonWolf version written in Ruby. Thanks a lot.

## Differences to `IO`

* `fileno` raises `NotImplementedError`.
* encoding conversion is not implemented, and ignored silently.

## Installation

Add this line to your application's Gemfile:

```ruby
```

gem 'stringio'
```

And then execute:

```
$ bundle
```

Or install it yourself as:

```
$ gem install stringio
```
## Development

After checking out the repo, run `bin/setup` to install dependencies. Then, run `rake test` to run the tests. You can also run `bin/console` for an interactive prompt that will allow you to experiment.

To install this gem onto your local machine, run `bundle exec rake install`. To release a new version, update the version number in `version.rb`, and then run `bundle exec rake release`, which will create a git tag for the version, push git commits and tags, and push the `.gem` file to [rubygems.org](https://rubygems.org).

## Contributing

Bug reports and pull requests are welcome on GitHub at https://github.com/ruby/stringio.

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/***********************************************************/

stringio.c -

$Author$
$RoughId: stringio.c,v 1.13 2002/03/14 03:24:18 nobu Exp$
created at: Tue Feb 19 04:10:38 JST 2002

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1.1933 apm-module-apmhttp 1.11.0
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1.1944 grafana-loki 1.6.0

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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
 Brad Fitzpatrick <bradfitz@golang.org>
 Eric Koleda <ekoleda+devrel@googlers.com>
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package api

import (
    "io/ioutil"
)
package strings
type time

// License struct
// The unique identifier of the license
LicenseID string `json:"license_id"

// The customer ID associated with the license
CustomerID string `json:"customer_id"

// If set, an identifier that should be used to lock the license to a
// particular site, cluster, etc.
InstallationID string `json:"installation_id"

// The time at which the license was issued
IssueTime time `json:"issue_time"

// The time at which the license starts being valid
StartTime time `json:"start_time"

// The time after which the license expires
ExpirationTime time `json:"expiration_time"

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    LicenseReply struct {
        Valid    bool
        License  *License
        Warnings []string
    }

    // implementation code
}
var reply LicenseReply
if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
    return nil, err
} else {
    return &reply, nil
}
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := requireOK(op.c.doRequest(r))
 if err != nil {
  return nil, err
 }
 defer resp.Body.Close()

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}

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Jan Mercl <0xjnml@gmail.com>
Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Russ Cox <rsc@golang.org>
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Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
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tomb - support for clean goroutine termination in Go.

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#
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Dmitri Shuralyov <shurcooL@gmail.com>
Ethan Mosbaugh <emosbaugh@gmail.com>
Soheil Hassas Yeganeh <soheil.h.y@gmail.com>
Soheil Hassas Yeganeh <soheil@cs.toronto.edu>
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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/google/renameio - https://github.com/google/renameio

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match.go, match_test.go:

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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* gogrep - https://github.com/mvdan/gogrep

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* gosmith - https://github.com/dvyukov/gosmith

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import (  
  "encoding/json"  
  
  "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {  
  LicenseProps  
  VendorExtensible

type LicenseProps struct {
    Name string `json:"name,omitempty"`  
    URL  string `json:"url.omitempty"` 
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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 */

package minio

import (
    "bytes"
)
// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
// objectLegalHold struct {
// XMLNS   string          `xml:"xmlns,attr,omitempty"
// XMLName xml.Name        `xml:"LegalHold"
// Status  LegalHoldStatus `xml:"Status,omitempty"
// }

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (  
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {  
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {  
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}
func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `%v`", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }
    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != "" {
    }
    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }
    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }
    reqMetadata := requestMetadata{
        bucketName:     bucketName,
        objectName:     objectName,
        queryValues:    urlValues,
        contentBody:    bytes.NewReader(lhData),
    }
// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(context.Background(), "PUT", reqMetadata)
deferr := closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "]")
    if opts.VersionID != "" {
    }
    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(context.Background(), "GET", requestMetadata{
        bucketName: bucketName,
        objectName: objectName,
        queryValues: urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
    deferr := closeResponse(resp)
    if err != nil {
        return nil, err
    }
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}

lh := &objectLegalHold{}
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}

return &lh.Status, nil
}

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

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

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DES core in libhcrypto

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D3DES (V5.09) -

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

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

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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Windows support

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1.1951 python-dateutil 2.6.1-1

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dateutil - Extensions to the standard Python datetime module.

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1.1953 netifaces 0.10.4-0.1build4

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License: MIT License
Description: netifaces 0.10.4

==============
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::

```bash
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::

```python
>>> import netifaces

Then if you enter

```python
>>> 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

```python
>>> 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::
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.

```
>>> 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:

```
>>> 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.

```
>>> 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
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netifaces 0.10.4
=============

.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
       :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
       :alt: Build Status

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::

```python
>>> import netifaces
```

Then if you enter

```python
>>> 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

```python
>>> 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'}]}
```

Hmmm. 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'}]
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1.1955 ini 1.51.0

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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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Mersenne Twister
-----------------

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
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- Use binascii module to do the actual line-by-line conversion
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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.

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1.1964 go-cmp v0.5.2
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1.1966 tracer 0.1.0

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# Please keep the list sorted.

Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <light@google.com>
Sarah Adams <shadams@google.com>
Scott Van Woudenberg <scottvw@gmail.com>
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Ainsley Escorce-Jones <ains@users.noreply.github.com>
Andy Hochhaus <hochhaus@users.noreply.github.com>
Antoine Pelisse <apelisse@gmail.com>
GinFungYJF <645116215@qq.com>
Ian Cottrell <ian.the.hat@gmail.com>
Jay Conrod <jayconrod@gmail.com>
Jeff Grafton <ixdy@users.noreply.github.com>
Jeff Hodges <jeff@somethingsimilar.com>
John Millikin <jmillikin@gmail.com>
Kristina <k.chodorow@gmail.com>
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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/kisielk/gotool  https://github.com/kisielk/gotool

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod

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tomb - support for clean goroutine termination in Go.

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)
// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
  LicenseKey: "00000-00000-00000-00000-00000-00000",
  EditionKey: "eval",
  Name: "Evaluation Mode",
  Properties: []types.KeyAnyValue{
    {Key: "feature",
     Value: types.KeyValue{
       Key:   "serialuri:2",
       Value: "Remote virtual Serial Port Concentrator",
     },
     {Key: "feature",
      Value: types.KeyValue{
        Key:   "dvs",
        Value: "vSphere Distributed Switch",
      },
      
    }
  }
}

type LicenseManager struct {
  mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
  m := &LicenseManager{
    Self: ref
    Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
  }
  if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }
  return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{

      }
    }
  }

  for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
      body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
    }
  }
  return body
}


m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels: req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
return body

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }
    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        Res: &types.UpdateLicenseLabelResponse{},
    }
    for i := range m.Licenses {
        license := &m.Licenses[i]
        if req.LicenseKey != license.LicenseKey {
            continue
        }
        body.Res = new(types.UpdateLicenseLabelResponse)
        for j := range license.Labels {
            label := &license.Labels[j]
            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                } else {
                    label.Value = req.LabelValue
                }
            }
        }
    }
}
license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey")
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{
        }
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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Feb, 2010

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Go support for Protocol Buffers - Google's data interchange format
http://github.com/golang/protobuf/
# 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

Copy requires that *tar* be installed in the container image.

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
```

Copy a remote file from a Pod to a local file.

- Local file format is `\<path>`
Remote file format is `<pod-name>::<path>`

```bash
dir cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
dir cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `/<namespace>`.

- `<pod-namespace>//<pod-name>::<path>`

```bash
dir cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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Janne Snabb <snabb@epipe.com>
Jeff Juozapaitis <jjjuozap@email.arizona.edu>
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Abhijeet Kasurde <akasurde@redhat.com>
abrarshivani <abrarshivani@users.noreply.github.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hasan Mahmood</td>
<td><a href="mailto:mahmoodh@vmware.com">mahmoodh@vmware.com</a></td>
</tr>
<tr>
<td>Henrik Hodne</td>
<td><a href="mailto:henrik@travis-ci.com">henrik@travis-ci.com</a></td>
</tr>
<tr>
<td>Isaac Rodman</td>
<td><a href="mailto:isaac@eyz.us">isaac@eyz.us</a></td>
</tr>
<tr>
<td>Ivan Porto Carrero</td>
<td><a href="mailto:icarrero@vmware.com">icarrero@vmware.com</a></td>
</tr>
<tr>
<td>James King</td>
<td><a href="mailto:james.king@emc.com">james.king@emc.com</a></td>
</tr>
<tr>
<td>Jason Kincl</td>
<td><a href="mailto:jkincl@gmail.com">jkincl@gmail.com</a></td>
</tr>
<tr>
<td>Jeremy Canady</td>
<td><a href="mailto:jcanady@jackhenry.com">jcanady@jackhenry.com</a></td>
</tr>
<tr>
<td>Jeremy-clerc</td>
<td><a href="mailto:jeremy@clerc.io">jeremy@clerc.io</a></td>
</tr>
<tr>
<td>Jiatong Wang</td>
<td><a href="mailto:wjiatong@vmware.com">wjiatong@vmware.com</a></td>
</tr>
<tr>
<td>Joo Pereira</td>
<td><a href="mailto:joaodrp@gmail.com">joaodrp@gmail.com</a></td>
</tr>
<tr>
<td>Jonas Ausevicius</td>
<td><a href="mailto:jonas.ausevicius@virtustream.com">jonas.ausevicius@virtustream.com</a></td>
</tr>
<tr>
<td>Jorge Sevilla</td>
<td><a href="mailto:jorge.sevilla@rstor.io">jorge.sevilla@rstor.io</a></td>
</tr>
<tr>
<td>kayrus</td>
<td><a href="mailto:kay.diam@gmail.com">kay.diam@gmail.com</a></td>
</tr>
<tr>
<td>Kevin George</td>
<td><a href="mailto:georgek@vmware.com">georgek@vmware.com</a></td>
</tr>
<tr>
<td>Leslie Qiwa</td>
<td><a href="mailto:leslie.qiwa@gmail.com">leslie.qiwa@gmail.com</a></td>
</tr>
<tr>
<td>Louie Jiang</td>
<td><a href="mailto:jiangl@vmware.com">jiangl@vmware.com</a></td>
</tr>
<tr>
<td>maplain</td>
<td><a href="mailto:fangyuanl@vmware.com">fangyuanl@vmware.com</a></td>
</tr>
<tr>
<td>Marc Carmier</td>
<td><a href="mailto:mcarmier@gmail.com">mcarmier@gmail.com</a></td>
</tr>
<tr>
<td>Maria Ntalla</td>
<td><a href="mailto:maria.ntalla@gmail.com">maria.ntalla@gmail.com</a></td>
</tr>
<tr>
<td>Marin Atanasov Nikolov</td>
<td><a href="mailto:mnnikolov@vmware.com">mnnikolov@vmware.com</a></td>
</tr>
<tr>
<td>Matt Clay</td>
<td><a href="mailto:matt@mystile.com">matt@mystile.com</a></td>
</tr>
<tr>
<td>Matthew Cosgrove</td>
<td><a href="mailto:matthew.cosgrove@dell.com">matthew.cosgrove@dell.com</a></td>
</tr>
<tr>
<td>Matt Moriarity</td>
<td><a href="mailto:matt@mattmoriarity.com">matt@mattmoriarity.com</a></td>
</tr>
<tr>
<td>Mevan Samaratunga</td>
<td><a href="mailto:mevansam@gmail.com">mevansam@gmail.com</a></td>
</tr>
<tr>
<td>Michael Jankowski</td>
<td><a href="mailto:mjankowski@vmware.com">mjankowski@vmware.com</a></td>
</tr>
<tr>
<td>Mingwei</td>
<td><a href="mailto:mingwei@smartx.com">mingwei@smartx.com</a></td>
</tr>
<tr>
<td>Nicolas Lamirault</td>
<td><a href="mailto:nicolas.lamirault@gmail.com">nicolas.lamirault@gmail.com</a></td>
</tr>
<tr>
<td>Omar Kohl</td>
<td><a href="mailto:omarkohl@gmail.com">omarkohl@gmail.com</a></td>
</tr>
<tr>
<td>Parham Alvani</td>
<td><a href="mailto:parham.alvani@gmail.com">parham.alvani@gmail.com</a></td>
</tr>
<tr>
<td>Pierre Gronlier</td>
<td><a href="mailto:pierre.gronlier@corp.ovh.com">pierre.gronlier@corp.ovh.com</a></td>
</tr>
<tr>
<td>Pieter Noordhuis</td>
<td><a href="mailto:pnoordhuis@vmware.com">pnoordhuis@vmware.com</a></td>
</tr>
<tr>
<td>Prydin</td>
<td><a href="mailto:prydin@vmware.com">prydin@vmware.com</a></td>
</tr>
<tr>
<td>Rowan Jacobs</td>
<td><a href="mailto:rojacobs@pivotal.io">rojacobs@pivotal.io</a></td>
</tr>
<tr>
<td>Runner Mei</td>
<td><a href="mailto:runner.mei@gmail.com">runner.mei@gmail.com</a></td>
</tr>
<tr>
<td>S.alar Onur</td>
<td><a href="mailto:conur@vmware.com">conur@vmware.com</a></td>
</tr>
<tr>
<td>Sergey Ignatov</td>
<td><a href="mailto:sergey.ignatov@jetbrains.com">sergey.ignatov@jetbrains.com</a></td>
</tr>
<tr>
<td>Steve Purcell</td>
<td><a href="mailto:steve@sanityinc.com">steve@sanityinc.com</a></td>
</tr>
<tr>
<td>Takaaki Furukawa</td>
<td><a href="mailto:takaaki.frkw@gmail.com">takaaki.frkw@gmail.com</a></td>
</tr>
<tr>
<td>Tamas Eger</td>
<td><a href="mailto:tamas.eger@bitrise.io">tamas.eger@bitrise.io</a></td>
</tr>
<tr>
<td>Tanishi</td>
<td><a href="mailto:tanishi503@gmail.com">tanishi503@gmail.com</a></td>
</tr>
<tr>
<td>Ted Zlatanov</td>
<td><a href="mailto:tzz@lifelogs.com">tzz@lifelogs.com</a></td>
</tr>
<tr>
<td>Thibaut Ackermann</td>
<td><a href="mailto:thibaut.ackermann@alcatel-lucent.com">thibaut.ackermann@alcatel-lucent.com</a></td>
</tr>
<tr>
<td>Trevor Dawe</td>
<td><a href="mailto:trevor.dawe@gmail.com">trevor.dawe@gmail.com</a></td>
</tr>
<tr>
<td>Uwe Bessle</td>
<td><a href="mailto:Uwe.Bessle@iteratec.de">Uwe.Bessle@iteratec.de</a></td>
</tr>
<tr>
<td>Vadim Egorov</td>
<td><a href="mailto:vegorov@vmware.com">vegorov@vmware.com</a></td>
</tr>
<tr>
<td>Vikram Krishnamurthy</td>
<td><a href="mailto:vikramkrishnamu@vmware.com">vikramkrishnamu@vmware.com</a></td>
</tr>
<tr>
<td>Volodymyr Bobyr</td>
<td><a href="mailto:pupsua@gmail.com">pupsua@gmail.com</a></td>
</tr>
<tr>
<td>Witold Krecicki</td>
<td><a href="mailto:wpk@culm.net">wpk@culm.net</a></td>
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Paul Borman <borman@google.com>
bmatsu
shawnps
theory
jboverfelt
dsymonds
cd1
wallclockbuilder
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goproperties - properties file decoder for Go

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}
const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
    removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
     the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present
     in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)

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1.1989 ipmiutil 3.0.7-1build1

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1.1990 color 1.9.0

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1.1992 zlib 1.2.11

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1.1993 go-openapi-swag 0.19.6

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1.1997 kubernetes-apimachinery 0.17.2

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1.1998 uuid v1.1.1

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In order of appearance:

Antoine Latter
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Tim Newsham

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1.1999 jetty-continuation 9.4.35.v20201120
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle
The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.
org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.2000 jul-to-slf4j 1.7.30
1.2000.1 Available under license:

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

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*/

Found in path(s):
* /opt/cola/permits/1135864176_1613618002.1/0/jul-to-slf4j-1-7-30-sources-1.jar/org/slf4j/bridge/SLF4JBridgeHandler.java

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1.2001 yajl 2.1.0-2build1

1.2001.1 Available under license:

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1.2002 man-db 2.8.3 2ubuntu0.1

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1.2008 pflag v0.0.1

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1.2009 istio-io-gogo-genproto 0.0.0-20200807182027-a780f93e8ee1
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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- NPL-1.1
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- OSL-1.1
- OSL-2.0
- OSL-2.1
- OSL-3.0
- QPL-1.0
- Sleepycat

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- git.apache.org/thrift.git
- github.com/alicebob/gopher-json
- github.com/antlr/antlr4
- github.com/apache/thrift
- github.com/bazelbuild/buildtools
- github.com/bgentry/speakeasy
- github.com/bmizerany/assert
- github.com/BurntSushi/xgb
- github.com/DATA-DOG/go-sqlmock
- github.com/daviddengcn/go-colortext
- github.com/dchest/siphash
- github.com/dnaeon/go-vcr
- github.com/dustinspencer/go-humanize
- github.com/facebookgo/stack
- github.com/facebookgo/stackerr
- github.com/ghodss/yaml
- github.com/globalsign/mgo
- github.com/gogo/protobuf
- github.com/google/cadvisor
- github.com/google/pprof
- github.com/gophercloud/gophercloud
- github.com/gotestyourself/gotestyourself
- github.com/hashicorp/consul
- github.com/hashicorp/serf
- github.com/hashicorp/vault
- github.com/heketi/heketi
- github.com/heketi/utils
- github.com/inconshreveable/mousetrap
- github.com/JeffAshton/win_pdh
- github.com/jmespath/go-jmespath
- github.com/jteeuwen/go-bindata
- github.com/julienschmidt/httprouter
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- github.com/pascaldekloe/goe
- github.com/pmezard/go-difflib
- github.com/projectcalico/go-yaml
- github.com/projectcalico/go-yaml-wrapper
- github.com/technosophos/moniker
- github.com/ulikunitz/xz
- github.com/xeipuuv/gojsonpointer
- github.com/xi2/xz

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# fuse.go: ISC
# fuse_kernel.go: BSD-2
- bazil.org/fuse

# BSD-3
- github.com/DataDog/zstd
# BSD-2 / ISC
- github.com/emirpasic/gods

# MIT / MIT
- github.com/kevinburke/ssh_config

# Apache 2.0
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# github.com/gogo/protobuf: BSD-3
# github.com/jmespath/go-jmespath: Apache 2.0
# sigs.k8s.io/yaml: MIT / BSD-3
- github.com/tektoncd/pipeline

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1.2014 cloud-image-utils 0.30-0ubuntu5

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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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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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jseward@bzip.org
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
const licenseJSON = `{ "name":"the name","url":"the url" }
const licenseYAML = "name: the name
url: the url"

assertSerializeJSON(t, license, licenseJSON)
assertSerializeYAML(t, license, licenseYAML)
assertParsesJSON(t, licenseJSON, license)
assertParsesYAML(t, licenseYAML, license)
}

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  Name string `json:"name,omitempty"
  URL  string `json:"url,omitempty"
}

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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.

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1.2024 err-code 2.0.3
1.2024.1 Available under license:
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Found in path(s):
* /opt/cola/permits/1171160520_1622824841.22/0/err-code-2-0-3-tgz/package/README.md

1.2025 zlib 1.2.3
1.2025.1 Available under license:
/* zlib.h -- interface of the ‘zlib’ general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly        Mark Adler
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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License")",
}

func TestLicense(t *testing.T) {
t.Parallel()
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if err != nil {
        return err
    }
})
if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
})
if err != nil {
    t.Fatal(err)
}
}

1.2027 kuler 2.0.0

1.2027.1 Available under license:

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1.2028 lazy-object-proxy 1.3.1

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1.2029 yargs 16.2.0

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1.2030 aws-sdk-go 1.3.2

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package licensemanager


// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {  if params == nil {    params = &DeleteLicenseInput{}  }

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
if err != nil {
  return nil, err
}
out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

  // Amazon Resource Name (ARN) of the license.
  // This member is required.
  LicenseArn *string

  // Current version of the license.
  // This member is required.
  SourceVersion *string
}

type DeleteLicenseOutput struct {

  // Date on which the license is deleted.
  DeletionDate *string

  // License status.
  Status types.LicenseDeletionStatus

  // Metadata pertaining to the operation's result.
  ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
  if err != nil {
    return err
  }

  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
  if err != nil {
    return err
  }

  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }

  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }

  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }

  return nil
}
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsourcemiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
        addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
//
// * Status
//
// * KeyFingerprint
//
// * Issuer
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

} type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = aws Middleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = aws Middleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
    *aws Middleware.RegisterServiceMetadata {
    return &aws Middleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

}
// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.

// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.

// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.

// This member is required.
HomeRegion *string

// License issuer.

// This member is required.
Issuer *types.Issuer

// License name.

// This member is required.
LicenseName *string

// Product name.

// This member is required.
ProductName *string

// Product SKU.

// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.

// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

}
// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil { return err }
    if err != nil { return err }
    if err = addSetLoggerMiddleware(stack, options); err != nil { return err }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil { return err }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil { return err }
    if err = addResolveEndpointMiddleware(stack, options); err != nil { return err }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil { return err }
    if err = addRetryMiddlewares(stack, options); err != nil { return err }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil { return err }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil { return err }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil { return err }
    return err
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
        addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    // // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of // the request.
    // // This member is required.
    ClientToken *string

    // License entitlements.
    // // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    // // This member is required.
    KeyFingerprint *string

    // Product SKU.
    // // This member is required.
    ProductSKU *string
type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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package licensemanager

import {
    "context"

    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...
  ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
  params = &CheckoutBorrowLicenseInput{
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
  addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
  return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // Digital signature method. The possible value is JSON Web Signature (JWS)
  // algorithm PS384. For more information, see RFC 7518 Digital Signature with
  //
  // This member is required.
  DigitalSignatureMethod types.DigitalSignatureMethod

  // License entitlements. Partial checkouts are not supported.
  //
  // This member is required.
  Entitlements []types.EntitlementData

  // Amazon Resource Name (ARN) of the license. The license must use the borrow
  // consumption configuration.
  //
  // This member is required.
  LicenseArn *string

  // Information about constraints.
}
type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
  return &awsmiddleware.RegisterServiceMetadata{
    Region:        region,
    ServiceID:     ServiceID,
    SigningName:   "license-manager",
    OperationName: "CheckoutBorrowLicense",
  }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (    
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
  if params == nil {
    params = &ListLicensesInput{}
  }

  result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*ListLicensesOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type ListLicensesInput struct {

  // Filters to scope the results. The following filters are supported:
  //
// *
// Beneficiary
// *
// * ProductSKU
// *
// * KeyFingerprint
// *
// * Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

}
return err
} if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
} if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
} if err = addRetryMiddlewares(stack, options); err != nil {
    return err
} if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
} if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
} if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
} if err = addClientUserAgent(stack); err != nil {
    return err
} if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
} if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
} if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
} if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
} if err = addResponseErrorMiddleware(stack); err != nil {
    return err
} if err = addRequestResponseLogging(stack, options); err != nil {
    return err
} return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:  region,
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}

type GetLicenseOutput struct {


// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
  return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
  return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
  return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
  return &awsmiddleware.RegisterServiceMetadata{
    Region:     region,
    ServiceID:  ServiceID,
    SigningName: "license-manager",
    OperationName: "GetLicense",
  }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
  if params == nil {
    params = &CheckInLicenseInput{}
  }
result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil

type CheckInLicenseInput struct {
    LicenseConsumptionToken *string
    Beneficiary *string
}

type CheckInLicenseOutput struct {
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {

return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
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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.

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Mersenne Twister

The `_random' module includes code based on a download from
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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)
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Any feedback is very welcome.

http://www.math.keio.ac.jp/matumoto/emt.html
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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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- 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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***********************************************************************

The following individuals contributed in part to the Network Time
Protocol Distribution Version 4 and are acknowledged as authors of
this work.
1. [1] Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2] Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
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10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12] Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13] Reg Clemens <reg@d wf.com> Oncore driver (Current maintainer)
13. [14] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21] Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22] Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23] Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26] Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpswEEP
27. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30] Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE < GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Saspertas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/subdirectory
49. [53]Ray Schnitzler <schnitz@unixpress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59]Tomoki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atsoft.de
4. mailto:%20vbais@mailman1.intel.co
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
8. mailto:%20greg.brackley@bigfoot.com
9. mailto:%20Marc.Brett@westgeo.com
10. mailto:%20Piete.Brooks@cl.cam.ac.uk
11. mailto:%20nelson@bolyard.me
12. mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto:%20reg@dwf.com
14. mailto:%20clift@ml.csiro.au
15. mailto:%20casey@csc.co.za
16. mailto:%20Sven_Dietrich@trimble.COM
17. mailto:%20dundas@salt.jpl.nasa.gov
18. mailto:%20duwe@immd4.informatik.uni-erlangen.de
19. mailto:%20dennis@mrbill.canet.ca
20. mailto:%20jhay@icomtek.csir.co.za
21. mailto:%20davehart@davehart.com
22. mailto:%20neoclock4x@linum.com
23. mailto:%20glenn@herald.usask.ca
24. mailto:%20iglesias@uci.edu
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Snowball stemming library collection for Python
===============================================

This document pertains to the Python version of the stemmer library distribution, available for download from:

* https://github.com/shibukawa/snowball/

This repository includes Python source code generator

* https://github.com/shibukawa/snowball_python/

This repository includes generated Python source codes

Original program is maintained at following place:

* http://snowball.tartarus.org/

Original Snowball product created by Dr Martin Porter and Richard Boulton (Java porting).
Original Snowball and my products are released under BSD license.

How to use library
------------------

The `snowballstemmer` module has two functions.

The `snowballstemmer.algorithms` function returns a list of available algorithm name's string.

The `snowballstemmer.stemmer` function accepts algorithm name and returns `Stemmer` objects.
``Stemmer`` objects have ``Stemmer.stemWord(word)`` method and ``Stemmer.stemWords(word[])`` method.

.. code-block:: python

    import snowballstemmer
    stemmer = snowballstemmer.stemmer('english');
    print(stemmer.stemWords("We are the world".split()));

``Stemmer`` objects have ``Stemmer.maxCacheSize`` property. They cache result within the value. Default is ``10000``.

Accelerates Stemming
---------------------

if **PyStemmer** is installed, ``snowballstemmer.stemmer`` returns **PyStemmer``\`s ``Stemmer`` objects. This ``Stemmer`` object has same methods (``Stemmer.stemWord()``)``, ``Stemmer.stemWords()``).

**PyStemmer** is a Snowball's ``libstemmer_c`` wrapper module and it returns 100% compatible result with **snowballstemmer**.

**PyStemmer** has faster speed because it uses C-lang module, and **snowballstemmer** has higher usability because it is pure Python module.

* `PyStemmer <http://pypi.python.org/pypi/PyStemmer/>`

Benchmark
~~~~~~~~~~

Test Case: Snowball stemmer check data (16 algorithms, total 582560 words, cache hit 0%)
Computer: MacBook Pro 3rd Gen Corei7 2.3GHz

* Python 2.7 + **snowballstemmer** : 2m 30s
* PyPy 1.9 + **snowballstemmer** : 45s
* Python 2.7 + **PyStemmer** : 5s

This test case is much harder than usual usecases!

The TestApp example
---------------------

The ``testapp.py`` example program allows you to run any of the stemmers on a sample vocabulary.

Usage:

```
testapp.py <algorithm> "sentences ...
```

.. code-block:: bash

  $ python testapp.py English "sentences... "

Thanks
------

* Original Snowball authors
* Emil Stenstrm

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Metadata-Version: 1.1
Name: snowballstemmer
Version: 1.2.1
Summary: This package provides 16 stemmer algorithms (15 + Poerter English stemmer) generated from Snowball algorithms.

Home-page: https://github.com/shibukawa/snowball_py

Author: Yoshiki Shibukawa

Author-email: yoshiki at shibu.jp

License: BSD

Description:

It includes following language algorithms:

* Danish
* Dutch
* English (Standard, Porter)
* Finnish
* French
* German
* Hungarian
* Italian
* Norwegian
* Portuguese
* Romanian
* Russian
* Spanish
* Swedish
* Turkish

This is a pure Python stemming library. If `PyStemmer <http://pypi.python.org/pypi/PyStemmer>`_ is available, this module uses it to accelerate.

Keywords: stemmer

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Programming Language :: Python

Classifier: Natural Language :: Danish

Classifier: Natural Language :: Dutch

Classifier: Natural Language :: English

Classifier: Natural Language :: Finnish

Classifier: Natural Language :: French

Classifier: Natural Language :: German

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1.2050 commons-lang3 3.11

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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xx/DateDV.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xx/XMLSchemaValidator.java
*/
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*/
opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSException.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLInputElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMLeaf.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLNamespaceBinder.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/FullDVFactory.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xni/XMLDTDContentModelHandler.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xs/XSAttributeUseImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xs/XSNamespaceItemList.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xni/XMLLDTDCContentModelHandler.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/permits/xs/util/XS10TypeHelper.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/permits/parsers/XML11Configurable.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/permits/io/MalformedByteSequenceException.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLEmElementImpl.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/permits/xs/opti/DefaultXMLDocumentHandler.java
jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xerces/dom/NodeListCache.java
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/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 *
 * @return a boolean that says whether this content has been compacted for UPA
 */

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 */

/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode  The <code>mode</code> argument is either
 *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
 *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
 *   <code>LSParser</code> that is created will operate in synchronous
 *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
 *   <code>LSParser</code> that is created will operate in asynchronous
 *   mode.
 * @param schemaType  An absolute URI representing the type of the schema
 *   language used during the load of a <code>Document</code> using the
 *   newly created <code>LSParser</code>. Note that no lexical checking
 *   is done on the absolute URI. In order to create a
 *   <code>LSParser</code> for any kind of schema types (i.e. the
 *   <code>LSParser</code> will be free to use any schema found), use the value
 *   <code>null</code>.
 * @return  The newly created <code>LSParser</code> object. This
 *
 * <p>Note: For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502'>XML Schema Part 1</a>]
 *      , applications must use the value
 *      <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
 *      applications must use the value
 *      <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
 *      are outside the scope of the W3C and therefore should recommend an
 *      absolute URI in order to use this method.
 *      @return  The newly created <code>LSParser</code> object. This
* <code>LSParser</code> is either synchronous or asynchronous depending on the value of the <code>mode</code> argument.
* <p>Note:</p> By default, the newly created <code>LSParser</code> does not contain a <code>DOMErrorHandler</code>, i.e. the value of the "error-handler" configuration parameter is <code>null</code>. However, implementations may provide a default error handler at creation time. In that case, the initial value of the <code>error-handler</code> configuration parameter on the new created <code>LSParser</code> contains a reference to the default error handler.
* @exception DOMException NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is not supported.
*/

Found in path(s):
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

1.2052 libgcrypt 1.8.1 4ubuntu1.3
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Jan Holmberg, <jan@artech.net> :
o Memory framework
o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au> :
o MISC checker redesign
o Scheduler framework extension to support child process handling.
o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :
o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :
o Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com> :
o Fixed shadowed declaration reported by -Wshadow.
o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :
o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w@1wt.eu>:
o Extended VRRP framework to support floating priority.

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1.2057 libffi 3.2.1-8
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1.2058 parseurl 1.3.3
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1.2059 ulikunitz-xz 0.5.6

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1.2060 require-directory 2.1.1

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1.2061 json 2.1.0

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Internet Engineering Task Force (IETF) T. Bray, Ed.
Request for Comments: 7159 Google, Inc.
Obsoletes: 4627, 7158 March 2014
Category: Standards Track
ISSN: 2070-1721

The JavaScript Object Notation (JSON) Data Interchange Format

Abstract

JavaScript Object Notation (JSON) is a lightweight, text-based, language-independent data interchange format. It was derived from the ECMAScript Programming Language Standard. JSON defines a small set of formatting rules for the portable representation of structured data.

This document removes inconsistencies with other specifications of JSON, repairs specification errors, and offers experience-based interoperability guidance.

Status of This Memo

This is an Internet Standards Track document.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Further information on Internet Standards is available in Section 2 of RFC 5741.

Information about the current status of this document, any errata,
and how to provide feedback on it may be obtained at http://www.rfc-editor.org/info/rfc7159.

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it for publication as an RFC or to translate it into languages other than English.
1. Introduction

JavaScript Object Notation (JSON) is a text format for the serialization of structured data. It is derived from the object literals of JavaScript, as defined in the ECMAScript Programming Language Standard, Third Edition [ECMA-262].

JSON can represent four primitive types (strings, numbers, booleans, and null) and two structured types (objects and arrays).

A string is a sequence of zero or more Unicode characters [UNICODE]. Note that this citation references the latest version of Unicode rather than a specific release. It is not expected that future changes in the UNICODE specification will impact the syntax of JSON.

An object is an unordered collection of zero or more name/value pairs, where a name is a string and a value is a string, number, boolean, null, object, or array.

An array is an ordered sequence of zero or more values.

The terms "object" and "array" come from the conventions of JavaScript.

JSON's design goals were for it to be minimal, portable, textual, and a subset of JavaScript.

1.1. Conventions Used in This Document
The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

The grammatical rules in this document are to be interpreted as described in [RFC5234].

1.2. Specifications of JSON

This document updates [RFC4627], which describes JSON and registers the media type "application/json".

A description of JSON in ECMAScript terms appears in Version 5.1 of the ECMAScript specification [ECMA-262], Section 15.12. JSON is also described in [ECMA-404].

All of the specifications of JSON syntax agree on the syntactic elements of the language.

1.3. Introduction to This Revision

In the years since the publication of RFC 4627, JSON has found very wide use. This experience has revealed certain patterns, which, while allowed by its specifications, have caused interoperability problems.

Also, a small number of errata have been reported (see RFC Errata IDs 607 [Err607] and 3607 [Err3607]).

This document's goal is to apply the errata, remove inconsistencies with other specifications of JSON, and highlight practices that can lead to interoperability problems.

2. JSON Grammar

A JSON text is a sequence of tokens. The set of tokens includes six structural characters, strings, numbers, and three literal names.

A JSON text is a serialized value. Note that certain previous specifications of JSON constrained a JSON text to be an object or an
array. Implementations that generate only objects or arrays where a JSON text is called for will be interoperable in the sense that all implementations will accept these as conforming JSON texts.

```
JSON-text = ws value ws
```

These are the six structural characters:

```
begin-array = ws %x5B ws ; [ left square bracket
begin-object = ws %x7B ws ; { left curly bracket
end-array = ws %x5D ws ; ] right square bracket
end-object = ws %x7D ws ; } right curly bracket
name-separator = ws %x3A ws ; : colon
value-separator = ws %x2C ws ; , comma
```

Insignificant whitespace is allowed before or after any of the six structural characters.

```
ws = *(  
  %x20 / ; Space
  %x09 / ; Horizontal tab
  %x0A / ; Line feed or New line
  %x0D ) ; Carriage return
```

3. Values

A JSON value MUST be an object, array, number, or string, or one of the following three literal names:

```
false null true
```

The literal names MUST be lowercase. No other literal names are allowed.

```
value = false / null / true / object / array / number / string
false = %x66.61.6c.73.65 ; false
null = %x6e.75.6c.6c ; null
true = %x74.72.75.65 ; true
```
4. Objects

An object structure is represented as a pair of curly brackets surrounding zero or more name/value pairs (or members). A name is a string. A single colon comes after each name, separating the name from the value. A single comma separates a value from a following name. The names within an object SHOULD be unique.

\[
\text{object} = \begin{array}{l}
\text{begin-object} \\
\text{ member *( value-separator member ) } \\
\text{end-object}
\end{array}
\]

\[
\text{member} = \text{string name-separator value}
\]

An object whose names are all unique is interoperable in the sense that all software implementations receiving that object will agree on the name-value mappings. When the names within an object are not unique, the behavior of software that receives such an object is unpredictable. Many implementations report the last name/value pair only. Other implementations report an error or fail to parse the object, and some implementations report all of the name/value pairs, including duplicates.

JSON parsing libraries have been observed to differ as to whether or not they make the ordering of object members visible to calling software. Implementations whose behavior does not depend on member ordering will be interoperable in the sense that they will not be affected by these differences.

5. Arrays

An array structure is represented as square brackets surrounding zero or more values (or elements). Elements are separated by commas.

\[
\text{array} = \begin{array}{l}
\text{begin-array} \\
\text{ value *( value-separator value ) } \\
\text{end-array}
\end{array}
\]

There is no requirement that the values in an array be of the same type.

6. Numbers
The representation of numbers is similar to that used in most programming languages. A number is represented in base 10 using decimal digits. It contains an integer component that may be prefixed with an optional minus sign, which may be followed by a fraction part and/or an exponent part. Leading zeros are not allowed.

A fraction part is a decimal point followed by one or more digits.

An exponent part begins with the letter E in upper or lower case, which may be followed by a plus or minus sign. The E and optional sign are followed by one or more digits.

Numeric values that cannot be represented in the grammar below (such as Infinity and NaN) are not permitted.

```
number = [ minus ] int [ frac ] [ exp ]
decimal-point = %x2E ; .
digit1-9 = %x31-39 ; 1-9
e = %x65 / %x45 ; e E
exp = e [ minus / plus ] 1*DIGIT
frac = decimal-point 1*DIGIT
int = zero / ( digit1-9 *DIGIT )
minus = %x2D ; -
plus = %x2B ; +
zero = %x30 ; 0
```

This specification allows implementations to set limits on the range and precision of numbers accepted. Since software that implements IEEE 754-2008 binary64 (double precision) numbers [IEEE754] is generally available and widely used, good interoperability can be achieved by implementations that expect no more precision or range
than these provide, in the sense that implementations will approximate JSON numbers within the expected precision. A JSON number such as 1E400 or 3.141592653589793238462643383279 may indicate potential interoperability problems, since it suggests that the software that created it expects receiving software to have greater capabilities for numeric magnitude and precision than is widely available.

Note that when such software is used, numbers that are integers and are in the range \[-(2^{53})+1, (2^{53})-1\] are interoperable in the sense that implementations will agree exactly on their numeric values.

7. Strings

The representation of strings is similar to conventions used in the C family of programming languages. A string begins and ends with quotation marks. All Unicode characters may be placed within the quotation marks, except for the characters that must be escaped: quotation mark, reverse solidus, and the control characters (U+0000 through U+001F).

Any character may be escaped. If the character is in the Basic Multilingual Plane (U+0000 through U+FFFF), then it may be represented as a six-character sequence: a reverse solidus, followed by the lowercase letter u, followed by four hexadecimal digits that encode the character's code point. The hexadecimal letters A through F can be upper or lower case. So, for example, a string containing only a single reverse solidus character may be represented as "\u005C".

Alternatively, there are two-character sequence escape representations of some popular characters. So, for example, a string containing only a single reverse solidus character may be represented more compactly as "\".

To escape an extended character that is not in the Basic Multilingual

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Plane, the character is represented as a 12-character sequence, encoding the UTF-16 surrogate pair. So, for example, a string containing only the G clef character (U+1D11E) may be represented as "\uD834\uDD1E".

string = quotation-mark *char quotation-mark

cchar = unescaped / escape (
  %x22 / ; " quotation mark U+0022
  %x5C / ; \ reverse solidus U+005C
  %x2F / ; / solidus U+002F
  %x62 / ; b backspace U+0008
  %x66 / ; f form feed U+000C
  %x6E / ; n line feed U+000A
  %x72 / ; r carriage return U+000D
  %x74 / ; t tab U+0009
  %x75 4HEXDIG ) ; uXXXX U+XXXX
esc = %x5C ; \n
quotation-mark = %x22 ; "

unescaped = %x20-21 / %x23-5B / %x5D-10FFFF

8. String and Character Issues

8.1. Character Encoding

JSON text SHALL be encoded in UTF-8, UTF-16, or UTF-32. The default encoding is UTF-8, and JSON texts that are encoded in UTF-8 are interoperable in the sense that they will be read successfully by the maximum number of implementations; there are many implementations that cannot successfully read texts in other encodings (such as UTF-16 and UTF-32).

Implementations MUST NOT add a byte order mark to the beginning of a JSON text. In the interests of interoperability, implementations that parse JSON texts MAY ignore the presence of a byte order mark rather than treating it as an error.
8.2. Unicode Characters

When all the strings represented in a JSON text are composed entirely of Unicode characters [UNICODE] (however escaped), then that JSON text is interoperable in the sense that all software implementations that parse it will agree on the contents of names and of string values in objects and arrays.

However, the ABNF in this specification allows member names and string values to contain bit sequences that cannot encode Unicode characters; for example, "\uDEAD" (a single unpaired UTF-16 surrogate). Instances of this have been observed, for example, when a library truncates a UTF-16 string without checking whether the truncation split a surrogate pair. The behavior of software that receives JSON texts containing such values is unpredictable; for example, implementations might return different values for the length of a string value or even suffer fatal runtime exceptions.

8.3. String Comparison

Software implementations are typically required to test names of object members for equality. Implementations that transform the textual representation into sequences of Unicode code units and then perform the comparison numerically, code unit by code unit, are interoperable in the sense that implementations will agree in all cases on equality or inequality of two strings. For example, implementations that compare strings with escaped characters unconverted may incorrectly find that "a\b" and "a\u005Cb" are not equal.
nesting. An implementation may set limits on the range and precision of numbers. An implementation may set limits on the length and character contents of strings.

10. Generators

A JSON generator produces JSON text. The resulting text MUST strictly conform to the JSON grammar.

11. IANA Considerations

The MIME media type for JSON text is application/json.

Type name: application

Subtype name: json

Required parameters: n/a

Optional parameters: n/a

Encoding considerations: binary

Security considerations: See [RFC7159], Section 12.

Interoperability considerations: Described in [RFC7159]

Published specification: [RFC7159]

Applications that use this media type:

JSON has been used to exchange data between applications written in all of these programming languages: ActionScript, C, C#, Clojure, ColdFusion, Common Lisp, E, Erlang, Go, Java, JavaScript, Lua, Objective CAML, Perl, PHP, Python, Rebol, Ruby, Scala, and Scheme.
Additional information:
- Magic number(s): n/a
- File extension(s): .json
- Macintosh file type code(s): TEXT

Person & email address to contact for further information:
IESG
<iesg@ietf.org>

Intended usage: COMMON

Restrictions on usage: none

Author:
Douglas Crockford
<douglas@crockford.com>

Change controller:
IESG
<iesg@ietf.org>

Note: No "charset" parameter is defined for this registration. Adding one really has no effect on compliant recipients.

12. Security Considerations

Generally, there are security issues with scripting languages. JSON is a subset of JavaScript but excludes assignment and invocation.

Since JSON's syntax is borrowed from JavaScript, it is possible to use that language's "eval()" function to parse JSON texts. This generally constitutes an unacceptable security risk, since the text could contain executable code along with data declarations. The same consideration applies to the use of eval()-like functions in any other programming language in which JSON texts conform to that language's syntax.
13. Examples

This is a JSON object:

```
{
  "Image": {
    "Width": 800,
    "Height": 600,
    "Title": "View from 15th Floor",
    "Thumbnail": {
      "Url": "http://www.example.com/image/481989943",
      "Height": 125,
      "Width": 100
    },
    "Animated": false,
    "IDs": [116, 943, 234, 38793]
  }
}
```

Its Image member is an object whose Thumbnail member is an object and whose IDs member is an array of numbers.

This is a JSON array containing two objects:

```
[
  {
    "precision": "zip",
    "Latitude": 37.7668,
    "Longitude": -122.3959,
    "Address": "",
    "City": "SAN FRANCISCO",
    "State": "CA",
    "Zip": "94107",
    "Country": "US"
  },
  {
    "precision": "zip",
    "Latitude": 37.371991,
    "Longitude": -122.026020,
    "Address": ""
  }
]
```
Here are three small JSON texts containing only values:

"Hello world!"

42

ture

14. Contributors

RFC 4627 was written by Douglas Crockford. This document was constructed by making a relatively small number of changes to that document; thus, the vast majority of the text here is his.

15. References

15.1. Normative References


15.2. Informative References


Appendix A. Changes from RFC 4627

This section lists changes between this document and the text in RFC 4627.

- Changed the title and abstract of the document.
- Changed the reference to [UNICODE] to be not version specific.
- Added a "Specifications of JSON" section.
- Added an "Introduction to This Revision" section.
- Changed the definition of "JSON text" so that it can be any JSON value, removing the constraint that it be an object or array.
o Added language about duplicate object member names, member ordering, and interoperability.

o Clarified the absence of a requirement that values in an array be of the same JSON type.

o Applied erratum #607 from RFC 4627 to correctly align the artwork for the definition of "object".

o Changed "as sequences of digits" to "in the grammar below" in the "Numbers" section, and made base-10-ness explicit.

o Added language about number interoperability as a function of IEEE754, and added an IEEE754 reference.

o Added language about interoperability and Unicode characters and about string comparisons. To do this, turned the old "Encoding" section into a "String and Character Issues" section, with three subsections: "Character Encoding", "Unicode Characters", and "String Comparison".

o Changed guidance in the "Parsers" section to point out that implementations may set limits on the range "and precision" of numbers.

o Updated and tidied the "IANA Considerations" section.

o Made a real "Security Considerations" section and lifted the text out of the previous "IANA Considerations" section.

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o Applied erratum #3607 from RFC 4627 by removing the security consideration that begins "A JSON text can be safely passed" and the JavaScript code that went with that consideration.

o Added a note to the "Security Considerations" section pointing out the risks of using the "eval()" function in JavaScript or any other language in which JSON texts conform to that language's syntax.
o Added a note to the "IANA Considerations" clarifying the absence of a "charset" parameter for the application/json media type.

o Changed "100" to 100 and added a boolean field, both in the first example.

o Added examples of JSON texts with simple values, neither objects nor arrays.

o Added a "Contributors" section crediting Douglas Crockford.

o Added a reference to RFC 4627.

o Moved the ECMAScript reference from Normative to Informative and updated it to reference ECMAScript 5.1, and added a reference to ECMA 404.

Author's Address

Tim Bray (editor)
Google, Inc.

EMail: tbray@textuality.com
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* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-o-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/Parser.rl

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* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-o-g4688035-tar-gz/flori-json-4688035/ext/json/ext/generator/generator.c

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# Changes

## 2017-04-18 (2.1.0)
* Allow passing of `decimal_class` option to specify a class as which to parse
  JSON float numbers.

## 2017-03-23 (2.0.4)
* Raise exception for incomplete unicode surrogates/character escape
  sequences. This problem was reported by Daniel Gollahon (dgollahon).
* Fix arbitrary heap exposure problem. This problem was reported by Ahmad
  Sherif (ahmadsherif).

## 2017-01-12 (2.0.3)
* Set `required_ruby_version` to 1.9
* Some small fixes

## 2016-07-26 (2.0.2)
* Specify `required_ruby_version` for json\_pure.
* Fix issue #295 failure when parsing frozen strings.

## 2016-07-01 (2.0.1)
* Fix problem when requiring json\_pure and Parser constant was defined top level.
* Add `RB_GC_GUARD` to avoid possible GC problem via Pete Johns.
* Store `current_nesting` on stack by Aaron Patterson.

## 2015-09-11 (2.0.0)
* Now complies to newest JSON RFC 7159.
* Implements compatability to ruby 2.4 integer unification.
* Drops support for old rubies whose life has ended, that is rubies < 2.0.
  Also see https://www.ruby-lang.org/en/news/2014/07/01/eol-for-1-8-7-and-1-9-2/
* There were still some mentions of dual GPL licensing in the source, but JSON has just the Ruby license that itself includes an explicit dual-licensing clause that allows covered software to be distributed under the terms of the Simplified BSD License instead for all ruby versions >= 1.9.3. This is however a GPL compatible license according to the Free Software Foundation. I changed these mentions to be consistent with the Ruby license setting in the gemspec files which were already correct now.

## 2015-06-01 (1.8.3)
* Fix potential memory leak, thx to nobu.

## 2015-01-08 (1.8.2)
* Some performance improvements by Vipul A M <vipulnward@gmail.com>.
* Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of `JSON.dump_default_options`.
* More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing `space_before` accessor in generator.
* Performance on Jruby improved by Ben Browning <bbrownin@redhat.com>.
* Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io> and SHIBATA Hiroshi <hsbt@ruby-lang.org>.

## 2013-05-13 (1.8.1)
* Remove Rubinius exception since transcoding should be working now.

## 2013-05-13 (1.8.0)
* Fix https://github.com/flori/json/issues/162 reported by Marc-Andre Lafontune <github_rocks@marc-andre.ca>. Thanks!
* Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with -Wchar-subscripts and better validate UTF-8 strings.
* Applied patch by ginriki@github to remove unnecessary if.
* Add load/dump interface to `JSON::GenericObject` to make serialize `:some_attribute`, `JSON::GenericObject` work in Rails active models for convenient `SomeModel#some_attribute.foo.bar` access to serialised JSON data.

## 2013-02-04 (1.7.7)
* Security fix for JSON create_additions default value and `JSON::GenericObject`. It should not be possible to create additions unless explicitly requested by setting the `create_additions` argument to true or using the `JSON.load/dump` interface. If `JSON::GenericObject` is supposed to be automatically deserialised, this has to be explicitly enabled by setting

  `JSON::GenericObject.json_creatable = true`

  as well.
* Remove useless assert in fbuffer implementation.
* Apply patch attached to https://github.com/flori/json/issues#issue/155 provided by John Shahid <jvshahid@gmail.com>, Thx!
* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

## 2012-11-29 (1.7.6)
* Add `GeneratorState#merge` alias for JRuby, fix state accessor methods. Thx to jvshahid@github.
* Increase hash likeness of state objects.

## 2012-08-17 (1.7.5)
* Fix compilation of extension on older rubies.

## 2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see https://github.com/flori/json/issues/142

## 2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.

## 2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the extension variant in jruby 1.9 mode.

## 2012-04-28 (1.7.1)
* Some small fixes for building

## 2012-04-28 (1.7.0)
* Add `JSON::GenericObject` for method access to objects transmitted via JSON.

## 2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.

## 2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting
everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo<br><tom.enebo@gmail.com>), should fix
* Fix https://github.com/flori/json/issues#issue/117

## 2012-01-15 (1.6.5)
* Vit Ondruch <v.ondruch@tiscali.cz> reported a bug that shows up when using
optimisation under GCC 4.7. Thx to him, Bohuslav Kabrda<br><bkabrda@redhat.com> and Yui NARUSE <naruse@airemix.jp> for debugging and
developing a patch fix.

## 2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter<br><headius@headius.com>.
* Support `object_class`/`array_class` with duck typed hash/array.

## 2011-12-01 (1.6.3)
* Let `JSON.load('')` return nil as well to make mysql text columns (default to
`''`) work better for serialization.

## 2011-11-21 (1.6.2)
* Add support for OpenStruct and BigDecimal.
* Fix bug when parsing nil in `quirks_mode`.
* Make JSON.dump and JSON.load methods better cooperate with Rails’ serialize
method. Just use:

```ruby
serialize :value, JSON
```
* Fix bug with time serialization concerning nanoseconds. Thanks for the
patch go to Josh Partlow (jpartlow@github).
* Improve parsing speed for JSON numbers (integers and floats) in a similar way to
what Evan Phoenix <evan@phx.io> suggested in:
https://github.com/flori/json/pull/103

## 2011-09-18 (1.6.1)
* Using `-target 1.5` to force Java bits to compile with 1.5.

## 2011-09-12 (1.6.0)
* Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
* Split json/add/core into different files for classes to be serialised.

## 2011-08-31 (1.5.4)
* Fix memory leak when used from multiple JRuby. (Patch by
jfirebaugh@github).
* Apply patch by Eric Wong <nocode@yhbt.net> that fixes garbage collection problem
reported in https://github.com/flori/json/issues/46.
* Add :quirks_mode option to parser and generator.
* Add support for Rational and Complex number additions via json/add/complex
and json/add/rational requires.

## 2011-06-20 (1.5.3)
* Alias State#configure method as State#merge to increase duck type synonymy with Hash.
* Add `as_json` methods in json/add/core, so rails can create its json objects the new way.

## 2011-05-11 (1.5.2)
* Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
* Add gemspecs for json and json\_pure.
* Fix bug in jruby pretty printing.
* Fix bug in `object_class` and `array_class` when inheriting from Hash or Array.

## 2011-01-24 (1.5.1)
* Made rake-compiler build a fat binary gem. This should fix issue https://github.com/flori/json/issues#issue/54.

## 2011-01-22 (1.5.0)
* Included Java source codes for the Jruby extension made by Daniel Luz <dev@mernen.com>.
* Output full exception message of `deep_const_get` to aid debugging.
* Fixed an issue with ruby 1.9 `Module#const_defined?` method, that was reported by Riley Goodside.

## 2010-08-09 (1.4.6)
* Fixed oversight reported in http://github.com/flori/json/issues/closed#issue/23, always create a new object from the state prototype.
* Made pure and ext api more similar again.

## 2010-08-07 (1.4.5)
* Manage data structure nesting depth in state object during generation. This should reduce problems with `to_json` method defintions that only have one argument.
* Some fixes in the state objects and additional tests.

## 2010-08-06 (1.4.4)

## 2010-05-05 (1.4.3)
* Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.
* Fixed issue http://github.com/flori/json/issues/#issue/20 reported by electronicwhisper@github. Thx!

## 2010-04-26 (1.4.2)
* Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with Microsoft Visual C possible again.
* Applied patch from devrandom <c1.github@niftybox.net> in order to allow building of
json_pure if extensiontask is not present.

* Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory leak, which is fixed in this release.
* Applied 993f261ccb8f911d2ae57e9db48ec7acd0187283 patch from josh@github.

## 2010-04-25 (1.4.1)
* Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T_FIXNUM being different on 32bit/64bit architectures.

## 2010-04-23 (1.4.0)
* Major speed improvements and building with simplified directory/file-structure.
  * Extension should at least be compatible with MRI, YARV and Rubinius.

## 2010-04-07 (1.2.4)
* Triger const_missing callback to make Rails' dynamic class loading work.

## 2010-03-11 (1.2.3)
* Added a `State#[]` method which returns an attribute's value in order to increase duck type compatibility to Hash.

## 2010-02-27 (1.2.2)
* Made some changes to make the building of the parser/generator compatible to Rubinius.

## 2009-11-25 (1.2.1)
* Added `:symbolize_names` option to Parser, which returns symbols instead of strings in object names/keys.

## 2009-10-01 (1.2.0)
* `fast_generate` now raises an exception for nan and infinite floats.
* On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE, and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion functions are used to convert from all supported encodings. ASCII-8BIT encoded strings are handled like all strings under Ruby 1.8 were.
* Better documentation

## 2009-08-23 (1.1.9)
* Added forgotten main doc file `extra_rdoc_files`.

## 2009-08-23 (1.1.8)
* Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure work in environments that don't provide iconv.
* Finally got around to avoid the rather paranoid escaping of `?/` characters in the generator's output. The parsers aren't affected by this change.
  Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.
## 2009-06-29 (1.1.7)
* Security Fix for JSON::Pure::Parser. A specially designed string could cause catastrophic backtracking in one of the parser's regular expressions in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue. Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this problem.
* This release also uses a less strict ruby version requirement for the creation of the mswin32 native gem.

## 2009-05-10 (1.1.6)
* No changes. tested native linux gems in the last release and they don't play well with different ruby versions other than the one the gem was built with. This release is just to bump the version number in order to skip the native gem on rubyforge.

## 2009-05-10 (1.1.5)
* Started to build gems with rake-compiler gem.
* Applied patch object/array class patch from Brian Candler <B.Candler@pobox.com> and fixes.

## 2009-04-01 (1.1.4)
* Fixed a bug in the creation of serialized generic rails objects reported by Friedrich Graeter <graeter@hydrixos.org>.
* Deleted tests/runner.rb, we're using testrb instead.
* Editor supports Infinity in numbers now.
* Made some changes in order to get the library to compile/run under Ruby 1.9.
* Improved speed of the code path for the fast_generate method in the pure variant.

## 2008-07-10 (1.1.3)
* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime handling: If the nominator and denominator of the offset were divisible by each other Ruby's Rational#to_s returns them as an integer not a fraction with '/'. This caused a ZeroDivisionError during parsing.
* Use Date#start and DateTime#start instead of sg method, while remaining backwards compatible.
* Supports ragel &geq; 6.0 now.
* Corrected some tests.
* Some minor changes.

## 2007-11-27 (1.1.2)
* Remember default dir (last used directory) in editor.
* JSON::Editor.edit method added, the editor can now receive json texts from the clipboard via C-v.
* Load json texts from an URL pasted via middle button press.
* Added :create_additions option to Parser. This makes it possible to disable
the creation of additions by force, in order to treat json texts as data while having additions loaded.

* Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON object if the rails addition is enabled, which is wrong. It now outputs a JSON string "foo" instead, like suggested by Jacob Maine.
* Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported by John Evans lgastako@gmail.com. He could produce a crash in the JSON generator by returning something other than a String instance from a to_json method. I now guard against this by doing a rather crude type check, which raises an exception instead of crashing.

## 2007-07-06 (1.1.1)
* Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby 1.9. I applied them and adapted some of them a bit to run both on 1.8 and 1.9.
* Introduced a `JSON.parse!` method without depth checking for people who like danger.
* Made generate and `pretty_generate` methods configurable by an options hash.
* Added :allow_nan option to parser and generator in order to handle NaN, Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi <andrea.censi@dis.uniroma1.it> for his hint about this.
* Fixed some more tests for Ruby 1.9.
* Implemented dump/load interface of Marshal as suggested in ruby-core:11405 by murphy <murphy@rubychan.de>.
* Implemented the `max_nesting` feature for generate methods, too.
* Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.

## 2007-05-21 (1.1.0)
* Implemented max_nesting feature for parser to avoid stack overflows for data from untrusted sources. If you trust the source, you can disable it with the option max_nesting => false.
* Piers Cawley <pdcawley@bofh.org.uk> reported a bug, that not every character can be escaped by `\` as required by RFC4627. There's a contradiction between David Crockford's JSON checker test vectors (in tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because the JSON checker seems to be a bit older than the RFC.
* Extended license to Ruby License, which includes the GPL.
* Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

## 2007-05-09 (1.0.4)
* Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile under Ruby 1.9. Thank you very much for mailing it to me!
* Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading of the binary.
## 2007-03-24 (1.0.3)
* Improved performance of pure variant a bit.
* The ext variant of this release supports the mswin32 platform. Ugh!

## 2007-03-24 (1.0.2)
* Ext Parser didn’t parse 0e0 correctly into 0.0: Fixed!

## 2007-03-24 (1.0.1)
* Forgot some object files in the build dir. I really like that - not!

## 2007-03-24 (1.0.0)
* Added C implementations for the JSON generator and a ragel based JSON parser in C.
* Much more tests, especially fixtures from json.org.
* Further improved conformance to RFC4627.

## 2007-02-09 (0.4.3)
* Conform more to RFC4627 for JSON: This means JSON strings now always must contain exactly one object `{ ... }` or array `"[ ... ]"` in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby (`\t\r\n`), and there are differences in floats and integers (no octals or hexadecimals) as well.
* Added aliases generate and `pretty_generate` of unparse and `pretty_unparse`.
* Fixed a test case.
* Catch an `Iconv::InvalidEncoding` exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!

## 2006-08-25 (0.4.2)
* Fixed a bug in handling solidi (/ characters), that was reported by Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

## 2006-02-06 (0.4.1)
* Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.

## 2005-09-23 (0.4.0)
* Initial Rubyforge Version

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/CHANGES.md
No license file was found, but licenses were detected in source scan.

/* Portions of the Selector class are derived from Jack Slocum’s DomQuery,  
* part of YUI-Ext version 0.40, distributed under the terms of an MIT-style
* license. Please see http://www.yui-ext.com/ for more information. */

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/data/prototype.js
No license file was found, but licenses were detected in source scan.

/*
 * This code is copyrighted work by Daniel Luz <dev at mernen dot com>.
 *
 * Distributed under the Ruby license: https://www.ruby-lang.org/en/about/license.txt
 */

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/RuntimeInfo.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/GeneratorMethods.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/OptionsReader.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/Parser.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/ParserService.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/ByteListTranscoder.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/GeneratorState.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/Utils.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/StringDecoder.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/Generator.java

1.2062 gonum-lapack v0.9.3

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* [Jon Wayne Parrott](https://github.com/jonparrott)
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Previous maintainers:

* [Nathaniel Manista](https://github.com/nathanielmanistaatgoogle)
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## Contributors

This list is generated from git commit authors.

* aalexand <aalexand@google.com>
* Aaron <aaronwinter@users.noreply.github.com>
* Adam Chainz <me@adamj.eu>
* ade@google.com
* Alexandre Vivien <alx.vivien@gmail.com>
* Ali Afshar <afshar@google.com>
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* Bill Prin <waprin@gmail.com, waprin@gmail.com>
* Brendan McCollam <brendan@mccoll.am, bmccollam@uchicago.edu>
* Craig Citro <craigcitro@gmail.com, craigcitro@google.com>
* Dan Ring <dfring@gmail.com>
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* dr. Kertsz Csaba-Zolt<ncskertesz@gmail.com>
* Dustin Farris <dustin@dustinfarris.com>
1.2070 json-cpp 1.7.4-3

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

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Pete
Brown, Jerry
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
SATO, Yuichi  
Sachets, Wilfredo  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cluyce D.  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frederic
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Koir, Klemen
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Kramer, Jakob
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Marchal, Frederic
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Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
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1.2072 zlib 1.2.11.dfsg 0ubuntu2

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1.2073 mime-types 2.1.34

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1.2078 python-pip 9.0.1-2.3~ubuntu1.18.04.4

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1.2079 psych 3.0.2
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1.2080 alexflint-go-filemutex 0.0.0-20171022225611-72bdc8eae2ae
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1.2082 jetty-io 9.4.16.v20190411
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
1.2083 rimraf 2.6.2
1.2083.1 Available under license:
   The ISC License

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1.2084 aws-sdk-go 1.27.0
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package licensemanager

import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http" 
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
            
```
result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil

// DeleteLicenseInput struct

// Amazon Resource Name (ARN) of the license.
// This member is required.
LicenseArn *string

// Current version of the license.
// This member is required.
SourceVersion *string

// DeleteLicenseOutput struct

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...
    func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
        addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}
type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// * ProductSKU
// * Status
// * KeyFingerprint
// * Issuer
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}
func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata 
return &awsmiddleware.RegisterServiceMetadata{
Region:        region,
ServiceID:     ServiceID,
SigningName:   "license-manager",
OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
if params == nil {
params = &CreateLicenseInput{
}
}
result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
addOperationCreateLicenseMiddlewares)
if err != nil {
return nil, err
}
out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.

// This member is required.
Beneficiary *string
// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange
// Information about the license.
LicenseMetadata [types.Metadata

] type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
return err
}
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
return err
}
func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:  region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string
// Product SKU.

// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

```go
type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}
```

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
```
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = aws.middleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = resolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = retryMiddlewares(stack, options); err != nil {
    return err
}
if err = httpSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = aws.middleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = aws.middleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, 
        addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata {
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{
    }
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// * Beneficiary
//
// * ProductSKU
//
// * KeyFingerprint
//
// * Status
 Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {

return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSsignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

// License version.
Version *string
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import ("context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
        addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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A portable, public domain, version of the Data Encryption Standard.

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Windows support

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lib/hcrypto/test_dh.c

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1.2094 linux-atm 2.5.1-2build1

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1.2113 containernetworking-cni 0.7.1

1.2113.1 Available under license:

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1.2114 python-debian 0.1.32

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#!/usr/bin/python

# vim: fileencoding=utf-8
#
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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

--- Check the format and dumpability of debian/copyright filenames on stdin.

Usage:

find /tmp/packages -type f -name copyright | ./check_parse_and_dump.py

The --suppress_warnings and --summary flags can be used to make the program
output less verbose.

---

import argparse
import codecs
import io
import sys
import warnings
from debian import copyright

def parse_args():
    parser = argparse.ArgumentParser()
    parser.add_argument('--summary', action='store_true',
                        help='Whether to print only a summary')
    parser.add_argument('--suppress_warnings', action='store_true',
                        help='Whether to suppress copyright warnings')
    return parser.parse_args()

def main():
    args = parse_args()

    if args.suppress_warnings:
        warnings.filterwarnings('ignore', module='debian.copyright')

    problems = []
    parse_failures = []
    dump_failures = []

    total = 0
for filename in sys.stdin:
    total += 1
    filename = filename.rstrip()
    with io.open(filename, mode='rt', encoding='utf-8') as f:
        try:
            c = copyright.Copyright(f)
        except Exception as e:
            problems.setdefault((1, 'Parse failures'), []).append((filename, e))
            continue
        try:
            c.dump()
        except Exception as e:
            problems.setdefault((2, 'Dump failures'), []).append((filename, e))
        if not c.header.known_format():
            problems.setdefault((3, 'Unknown format'), []).append((filename, c.header.format))

invalid_globs = []
globs_with_leading_dot_slash = []
globs_with_trailing_comma = []
globs_with_double_star = []
for p in c.all_files_paragraphs():
    try:
        p.files_pattern()
    except Exception as e:
        invalid_globs.append(e)
    for glob in p.files:
        if glob.startswith('./'):
            globs_with_leading_dot_slash.append(glob)
        if glob.endswith(','):  
            globs_with_trailing_comma.append(glob)
        if '**' in glob:
            globs_with_double_star.append(glob)

if invalid_globs:
    problems.setdefault((4, 'Invalid glob'), []).append((filename, invalid_globs))
if globs_with_leading_dot_slash:
    problems.setdefault((5, 'Globs with leading ./'), []).append((filename, globs_with_leading_dot_slash))
if globs_with_trailing_comma:
    problems.setdefault((6, 'Globs with trailing .'), []).append((filename, globs_with_trailing_comma))
if globs_with_double_star:
problems.setdefault((7, 'Globs with **'), []).append(
(filename, globs_with_double_star))
f = codecs.getwriter(encoding='utf-8')(sys.stdout)
for (_, heading), problems in sorted(problems.items()):
f.write('\n%s: (%d / %d)\n' % (heading, len(problems), total))
if not args.summary:
for filename, problem in problems:
f.write(' %s: %s\n' % (filename, problem))

if __name__ == '__main__':
main()
# vim: fileencoding=utf-8
#
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# along with this program; if not, write to the Free Software
# Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
"""Utilities for parsing and creating machine-readable debian/copyright files.
The specification for the format (also known as DEP5) is available here:
https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Start from the Coyright docstring for usage information.
"""
from __future__ import unicode_literals
import collections
import itertools
import io
import re
import warnings
from debian import deb822

Open Source Used In SMI 2021.01.0-Jan-2022 22457


_CURRENT_FORMAT = ('http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/')

_KNOWN_FORMATS = frozenset([
    _CURRENT_FORMAT,
    # TODO(jsw): Transparently rewrite https:// as http://, at least for this?
    'https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/',
])

class Error(Exception):
    """Base class for exceptions in this module."""

class NotMachineReadableError(Error):
    """Raised when the input is not a machine-readable debian/copyright file."""

class Copyright(object):
    """Represents a debian/copyright file.

    A Copyright object contains a Header paragraph and a list of additional
    Files or License paragraphs. It provides methods to iterate over those
    paragraphs, in addition to adding new ones. It also provides a mechanism
    for finding the Files paragraph (if any) that matches a particular
    filename.

    Typical usage:

    with io.open('debian/copyright', 'rt', encoding='utf-8') as f:
        c = copyright.Copyright(f)

        header = c.header
        # Header exposes standard fields, e.g.
        print('Upstream name: ', header.upstream_name)
        lic = header.license
        if lic:
            print('Overall license: ', lic.synopsis)
        # You can also retnive and set custom fields.
        header['My-Special-Field'] = 'Very special'

        # Find the license for a given file.
        paragraph = c.find_files_paragraph('debian/rules')
        if paragraph:
            print('License for debian/rules: ', paragraph.license)"""
# Dump the result, including changes, to another file.
with io.open('debian/copyright.new', 'wt', encoding='utf-8') as f:
c.dump(f=f)

It is possible to build up a Copyright from scratch, by modifying the header and using add_files_paragraph and add_license_paragraph. See the associated method docstrings.

```
def __init__(self, sequence=None, encoding='utf-8'):
    """Initializer.
    :param sequence: Sequence of lines, e.g. a list of strings or a
        file-like object. If not specified, a blank Copyright object is
        initialized.
    :param encoding: Encoding to use, in case input is raw byte strings.
        It is recommended to use unicode objects everywhere instead, e.g.
        by opening files in text mode.
    Raises:
        NotMachineReadableError if 'sequence' does not contain a
        machine-readable debian/copyright file.
    ""
    super(Copyright, self).__init__()

    self.__paragraphs = []

    if sequence is not None:
        paragraphs = list(deb822.Deb822.iter_paragraphs(
            sequence=sequence, encoding=encoding))
        if not paragraphs:
            raise NotMachineReadableError('no paragraphs in input')
        self.__header = Header(paragraphs[0])
        for i in range(1, len(paragraphs)):
            p = paragraphs[i]
            if 'Files' in p:
                p = FilesParagraph(p)
            elif 'License' in p:
                p = LicenseParagraph(p)
            else:
                warnings.warn('Non-header paragraph has neither "Files"
                "nor "License" fields')
            self.__paragraphs.append(p)
        else:
            self.__header = Header()

    @property
    def header(self):
The file header paragraph.

return self.__header

@header.setter
def header(self, hdr):
    if not isinstance(hdr, Header):
        raise TypeError('value must be a Header object')
    self.__header = hdr

def all_paragraphs(self):
    """Returns an iterator over all paragraphs (header, Files, License).

    The header (returned first) will be returned as a Header object; file paragraphs as FilesParagraph objects; license paragraphs as LicenseParagraph objects.
    ""
    return itertools.chain([self.header], (p for p in self.__paragraphs))

def __iter__(self):
    """Iterate over all paragraphs

    see all_paragraphs() for more information
    ""
    return self.all_paragraphs()

def all_files_paragraphs(self):
    """Returns an iterator over the contained FilesParagraph objects.""
    return (p for p in self.__paragraphs if isinstance(p, FilesParagraph))

def find_files_paragraph(self, filename):
    """Returns the FilesParagraph for the given filename.

    In accordance with the spec, this method returns the last FilesParagraph that matches the filename. If no paragraphs matched, returns None.
    ""
    result = None
    for p in self.all_files_paragraphs():
        if p.matches(filename):
            result = p
    return result

def add_files_paragraph(self, paragraph):
    """Adds a FilesParagraph to this object.

    The paragraph is inserted directly after the last FilesParagraph (which might be before a standalone LicenseParagraph)."""
if not isinstance(paragraph, FilesParagraph):
    raise TypeError('paragraph must be a FilesParagraph instance')

last_i = -1
for i, p in enumerate(self.__paragraphs):
    if isinstance(p, FilesParagraph):
        last_i = i
self.__paragraphs.insert(last_i + 1, paragraph)

def all_license_paragraphs(self):
    """Returns an iterator over standalone LicenseParagraph objects."""
    return (p for p in self.__paragraphs if isinstance(p, LicenseParagraph))

def add_license_paragraph(self, paragraph):
    """Adds a LicenceParagraph to this object.
    The paragraph is inserted after any other paragraphs.
    """
    if not isinstance(paragraph, LicenseParagraph):
        raise TypeError('paragraph must be a LicenseParagraph instance')
    self.__paragraphs.append(paragraph)

def dump(self, f=None):
    """Dumps the contents of the copyright file.

    If f is None, returns a unicode object. Otherwise, writes the contents
to f, which must be a file-like object that is opened in text mode
(i.e. that accepts unicode objects directly). It is thus up to the
caller to arrange for the file to do any appropriate encoding.
"""
    return_string = False
    if f is None:
        return_string = True
        f = io.StringIO()
    self.header.dump(f, text_mode=True)
    for p in self.__paragraphs:
        f.write('
')
        p.dump(f, text_mode=True)
    if return_string:
        return f.getvalue()

def _single_line(s):
    """Returns s if it is a single line; otherwise raises ValueError."""
    if '\n' in s:
        raise ValueError('must be single line')
    return s
class _LineBased(object):
    """Namespace for conversion methods for line-based lists as tuples."""
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    @staticmethod
def from_str(s):
        """Returns the lines in 's', with whitespace stripped, as a tuple."""
        return tuple(v for v in
                      (line.strip() for line in (s or '').strip().splitlines())
                      if v)

    @staticmethod
def to_str(seq):
        """Returns the sequence as a string with each element on its own line.

        If 'seq' has one element, the result will be on a single line.
        Otherwise, the first line will be blank.
        """
        l = list(seq)
        if not l:
            return None

        def process_and_validate(s):
            s = s.strip()
            if not s:
                raise ValueError('values must not be empty')
            if 'null' in s:
                raise ValueError('values must not contain newlines')
            return s

        if len(l) == 1:
            return process_and_validate(l[0])

        tmp = ['
        for s in l:
            tmp.append(' ' + process_and_validate(s))
        return '
'.join(tmp)

class _SpaceSeparated(object):
    """Namespace for conversion methods for space-separated lists as tuples."""
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    _has_space = re.compile(r'\s')

    @staticmethod
def from_str(s):
    """Returns the values in s as a tuple (empty if only whitespace)."""
    return tuple(v for v in (s or '').split() if v)

@classmethod
def to_str(cls, seq):
    """Returns the sequence as a space-separated string (None if empty)."""
    l = list(seq)
    if not l:
        return None
    tmp = []
    for s in l:
        if cls._has_space.search(s):
            raise ValueError('values must not contain whitespace')
        s = s.strip()
        if not s:
            raise ValueError('values must not be empty')
        tmp.append(s)
    return ' '.join(tmp)

# TODO(jsw): Move multiline formatting/parsing elsewhere?

def format_multiline(s):
    """Formats multiline text for insertion in a Deb822 field.

    Each line except for the first one is prefixed with a single space. Lines
    that are blank or only whitespace are replaced with '.'
    """
    if s is None:
        return None
    return format_multiline_lines(s.splitlines())

def format_multiline_lines(lines):
    """Same as format_multiline, but taking input pre-split into lines."""
    out_lines = []
    for i, line in enumerate(lines):
        if i != 0:
            if not line.strip():
                line = '.
                line = ' ' + line
                out_lines.append(line)
    return 'n'.join(out_lines)

def parse_multiline(s):
    """Inverse of format_multiline."""
Technically it can't be a perfect inverse, since format_multiline must replace all-whitespace lines with '.

Specifically, this function:
- Does nothing to the first line
- Removes first character (which must be ') from each proceeding line.
- Replaces any line that is '.' with an empty line.

```python
if s is None:
    return None
return \n'.join(parse_multiline_as_lines(s))
```

def parse_multiline_as_lines(s):
    """Same as parse_multiline, but returns a list of lines.

    (This is the inverse of format_multiline_lines.)
    ""
    lines = s.splitlines()
    for i, line in enumerate(lines):
        if i == 0:
            continue
        if line.startswith(' '):
            line = line[1:]
        else:
            raise ValueError('continued line must begin with " "')
        if line == '.':
            line = ''
        lines[i] = line
    return lines
```

class License(collections.namedtuple('License', 'synopsis text')):
    """Represents the contents of a License field. Immutable.""

def __new__(cls, synopsis, text=''):  
    """Creates a new License object.

    :param synopsis: The short name of the license, or an expression giving alternatives. (The first line of a License field.)
    :param text: The full text of the license, if any (may be None). The lines should not be mangled for "deb822"-style wrapping - i.e. they should not have whitespace prefixes or single '.' for empty lines.
    ""
    return super(License, cls).__new__(cls, synopsis=_single_line(synopsis), text=(text or ''))

@classmethod
def from_str(cls, s):
    pass
if s is None:
    return None

lines = parse_multiline_as_lines(s)
if not lines:
    return cls('')
return cls(lines[0], text='\n'.join(itertools.islice(lines, 1, None)))

def to_str(self):
    return format_multiline_lines([self.synopsis] + self.text.splitlines())

# TODO(jsw): Parse the synopsis?
# TODO(jsw): Provide methods to look up license text for known licenses?

def globs_to_re(globs):
    r'''"""Returns an re object for the given globs.

    Only * and ? wildcards are supported. Literal * and ? may be matched via
    V* and V?, respectively. A literal backslash is matched V. Any other
    character after a backslash is forbidden.

    Empty globs match nothing.

    Raises ValueError if any of the globs is illegal.
    """

    buf = io.StringIO()
    for i, glob in enumerate(globs):
        if i != 0:
            buf.write('|')
        i = 0
        n = len(glob)
        while i < n:
            c = glob[i]
            i += 1
            if c == '*':
                buf.write('.*')
            elif c == '?':
                buf.write('.')
            elif c == '\':
                if i < n:
                    c = glob[i]
                    i += 1
                else:
                    raise ValueError('single backslash not allowed at end')
            else:
                raise ValueError('single backslash not allowed at end')
        if c in r'\*?':
            buf.write(re.escape(c))
        else:
raise ValueError(r'\invalid escape sequence: \%s\ %c')
else:
    buf.write(re.escape(c))

# Patterns must be anchored at the end of the string. (We use \Z instead
# of $ so that this works correctly for filenames including \n.)
buf.write(r'\Z')
return re.compile(buf.getvalue(), re.MULTILINE | re.DOTALL)

class FilesParagraph(deb822.RestrictedWrapper):
    """Represents a Files paragraph of a debian/copyright file.

This kind of paragraph is used to specify the copyright and license for a
particular set of files in the package.
"""

def __init__(self, data, __internal_validate=True):
    super(FilesParagraph, self).__init__(data)

    if __internal_validate:
        if 'Files' not in data:
            raise ValueError("Files" field required')
        # For the other "required" fields, we just warn for now. Perhaps
        # these should be upgraded to exceptions (potentially protected by
        # a "strict" param).
        if 'Copyright' not in data:
            warnings.warn('Files paragraph missing Copyright field')
        if 'License' not in data:
            warnings.warn('Files paragraph missing License field')

        if not self.files:
            warnings.warn('Files paragraph has empty Files field')

        self.__cached_files_pat = (None, None)

    @classmethod
    def create(cls, files, copyright, license):
        """Create a new FilesParagraph from its required parts.

:param files: The list of file globs.
:param copyright: The copyright for the files (free-form text).
:param license: The Licence for the files.
"""

        p = cls(deb822.Deb822(), __internal_validate=False)
        p.files = files
        p.copyright = copyright
        p.license = license
return p
def files_pattern(self):
"""Returns a regular expression equivalent to the Files globs.
Caches the result until files is set to a different value.
Raises ValueError if any of the globs are invalid.
"""
files_str = self['files']
if self.__cached_files_pat[0] != files_str:
self.__cached_files_pat = (files_str, globs_to_re(self.files))
return self.__cached_files_pat[1]
def matches(self, filename):
"""Returns True iff filename is matched by a glob in Files."""
pat = self.files_pattern()
return pat.match(filename) is not None
files = deb822.RestrictedField(
'Files', from_str=_SpaceSeparated.from_str,
to_str=_SpaceSeparated.to_str, allow_none=False)
copyright = deb822.RestrictedField('Copyright', allow_none=False)
license = deb822.RestrictedField(
'License', from_str=License.from_str, to_str=License.to_str,
allow_none=False)
comment = deb822.RestrictedField('Comment')

class LicenseParagraph(deb822.RestrictedWrapper):
"""Represents a standalone license paragraph of a debian/copyright file.
Minimally, this kind of paragraph requires a 'License' field and has no
'Files' field. It is used to give a short name to a license text, which
can be referred to from the header or files paragraphs.
"""
def __init__(self, data, _internal_validate=True):
super(LicenseParagraph, self).__init__(data)
if _internal_validate:
if 'License' not in data:
raise ValueError('"License" field required')
if 'Files' in data:
raise ValueError('input appears to be a Files paragraph')

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@classmethod
def create(cls, license):
    """Returns a LicenseParagraph with the given license."""
    if not isinstance(license, License):
        raise TypeError('license must be a License instance')
    paragraph = cls(deb822.Deb822(), _internal_validate=False)
    paragraph.license = license
    return paragraph

# TODO(jsw): Validate that the synopsis of the license is a short name or
# short name with exceptions (not an alternatives expression). This
# requires help from the License class.
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)

comment = deb822.RestrictedField('Comment')

# Hide 'Files'.
__files = deb822.RestrictedField('Files')

class Header(deb822.RestrictedWrapper):
    """Represents the header paragraph of a debian/copyright file.

    Property values are all immutable, such that in order to modify them you
    must explicitly set them (rather than modifying a returned reference).
    """

def __init__(self, data=None):
    """Initializer.

    :param parsed: A deb822.Deb822 object for underlying data. If None, a
    new one will be created.
    """
    if data is None:
        data = deb822.Deb822()
        data['Format'] = _CURRENT_FORMAT

    if 'Format-Specification' in data:
        warnings.warn('use of deprecated "Format-Specification" field;
            rewriting as "Format"')
        data['Format'] = data['Format-Specification']
        del data['Format-Specification']

    super(Header, self).__init__(data)

    fmt = self.format
if fmt is None:
    raise NotMachineReadableError('input is not a machine-readable debian/copyright')
if fmt not in _KNOWN_FORMATS:
    warnings.warn('format not known: %r' % fmt)

def known_format(self):
    """Returns True iff the format is known."""
    return self.format in _KNOWN_FORMATS

def current_format(self):
    """Returns True iff the format is the current format."""
    return self.format == _CURRENT_FORMAT

format = deb822.RestrictedField(
    'Format', to_str=_single_line, allow_none=False)

upstream_name = deb822.RestrictedField(
    'Upstream-Name', to_str=_single_line)

upstream_contact = deb822.RestrictedField(
    'Upstream-Contact', from_str=_LineBased.from_str,
    to_str=_LineBased.to_str)

source = deb822.RestrictedField('Source')

disclaimer = deb822.RestrictedField('Disclaimer')

comment = deb822.RestrictedField('Comment')

license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str)

copyright = deb822.RestrictedField('Copyright')

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: python-debian
Upstream-Contact: pkg-python-debian-maint@lists.alioth.debian.org
Source: http://anonscm.debian.org/cgit/pkg-python-debian/python-debian.git

Files: *
Copyright: Debian python-debian Maintainers (see debian/control for maintainer names)
License: GPL-2+

Files: lib/deb822.py lib/debian/deb822.py lib/debian/tests/test_deb822.py
Copyright: Copyright (C) 2005-2006 dann frazier <dannf@dannf.org>
Copyright (C) 2006-2010 John Wright <john@johnwright.org>
Copyright (C) 2006 Adeodato Sim <dato@net.com.org.es>
Copyright (C) 2008 Stefano Zacchiroli <zack@upsilon.cc>
Files:
examples/changelog/*
lib/debian/changelog.py
README.changelog
setup.py.in
lib/debian/tests/test_changelog.py
Copyright: Copyright (C) 2006-2007 James Westby <jw+debian@jameswestby.net>
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License: GPL-2+
Comment: lib/debian/changelog.py's parsing code is based on that from dpkg which is:
Copyright 1996 Ian Jackson
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and licensed under the same license.

Files:
lib/debian/debian_support.py
lib/debian/tests/test_debian_support.py
Copyright: Copyright (C) 2005 Florian Weimer <fw@deneb.enyo.de>
Copyright (C) 2006-2007 James Westby <jw+debian@jameswestby.net>
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Files:
examples/debtags/*
lib/debian/debtags.py
lib/debian/doc-debtags
lib/debian/tests/test_debtags.py
Copyright: Copyright (C) 2003-2007 Enrico Zini <enrico@debian.org>
License: GPL-3+

Files:
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lib/debian/debfile.py
lib/debian/tests/test_debfile.py
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Files:
lib/debian/deprecation.py
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1.2115 jersey-metainf-services 2.25.1
1.2116 gogo-protobuf v1.3.2

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dshultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
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1.2117 gc 7.4.2-8ubuntu1

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The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998
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and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG
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DOCUMENTATION ROADMAP
======================
This file contains the following sections:

OVERVIEW            General description of JPEG and the IJG software.
LEGAL ISSUES        Copyright, lack of warranty, terms of distribution.
REFERENCES          Where to learn more about JPEG.
ARCHIVE LOCATIONS   Where to find newer versions of this software.
RELATED SOFTWARE    Other stuff you should get.
FILE FORMAT WARS    Software *not* to get.
TO DO               Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc       How to configure and install the IJG software.
usage.doc         Usage instructions for cjpeg, djpeg, jpegtran,
                   rdjpgcom, and wrjpgcom.
*.1               Unix-style man pages for programs (same info as usage.doc).
wizard.doc        Advanced usage instructions for JPEG wizards only.
change.log         Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc       How to use the JPEG library in your own programs.
example.c         Sample code for calling the JPEG library.
structure.doc     Overview of the JPEG library's internal structure.
filelist.doc      Road map of IJG files.
coderules.doc     Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
M&T Books (New York), 2nd ed. 1996. ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
=====================

Numerous viewing and image manipulation programs now support JPEG. (Quite a
few of them use this library to do so. The JPEG FAQ described above lists
some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPPLUS software, which provides many useful operations on PPM-format image
files. In particular, it can convert PPM images to and from a wide range of
other formats, thus making cjpeg/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous
sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read. (For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format
has been agreed to by a number of major commercial JPEG vendors, and it has
become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF
Technical Note #2) for "high end" applications that need to record a lot of
additional data about an image. TIFF/JPEG is fairly new and not yet widely
supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.
SPIFF is interoperable with JFIF; in the sense that most JFIF decoders should
be able to read the most common variant of SPIFF. SPIFF has some technical
advantages over JFIF, but its major claim to fame is simply that it is an
official standard rather than an informal one. At this point it is unclear
whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto
standard. IJG intends to support SPIFF once the standard is frozen, but we
have not decided whether it should become our default output format or not.
(In any case, our decoder will remain capable of reading JFIF indefinitely.)
Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

**TO DO**

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net. This package was debianised by Steve McIntyre <stevem@chiark.greenend.org.uk>, finishing on Sun 7th October 2001. The maintainership was transferred in August 2003 to Andreas Barth <aba@not.so.argh.org>, first as cooperative maintainership and sponsored by Steve.

Packaging and keeping the package current is not simple, for details see README.Debian. We consider http://netpbm.alioth.debian.org/ the technical upstream, and this release can be exported out of alioth by:

cvs -z3 -dpserver:anonymous@cvs.alioth.debian.org:/cvsroot/netpbm export -r debian-9-25-2 netpbm

**Copyright:**

Netpbm has a very complicated licensing setup, as it is a collection of hundreds of small utility programs, each with an individual copyright/license. From inspection of the source and documentation in the package, I believe the following programs are DFSG-free. They have a variety of licenses, which I have summarised below for convenience.

A: The most common netpbm license - clearly the original from Jef Poskanzer:
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The core libp[gbnp]m library code all also seems to follow this license.

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I: A variation on the BSD license

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Programs actually included in this package:

411toppm: (B) 2001 Steve Allen <sla@alumni.caltech.edu>
anytopnm: (A) 1991 Jef Poskanzer
asciitopgm: (A) 1989 Wilson H. Bent, Jr
atktopbm: (A) 1991 Bill Janssen
bioradtopgm: (A) 1993 Oliver Trepte <oliver@fysik4.kth.se>
bmptopnm: (A) 1992 David W. Sanderson (as bmptoppm)
brushtopbm: (A) 1988 Jef Poskanzer
cmuwmtopbm: (A) 1989 Jef Poskanzer
eyuvtoppm: (B) 1995 The Regents of the University of California
fiascottopnm: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
fitstopnm: (A) 1989 Jef Poskanzer
fstopgm: (A) 1989 Jef Poskanzer
g3topbm: (A) 1989 Paul Haeberli <paul@manray.sgi.com>
gemtopnm: (A) 1988 Diomidis D. Spinellis
giftopnm: (A) 1990-1993 David Koblas <koblas@netcom.com>
gouldtoppm: (A) 1990 Stephen P. Lesniewski
hipstopgm: (A) 1989 Jef Poskanzer
icontopbm: (A) 1988 Jef Poskanzer
ilbmtoppm: (A) 1989 Jef Poskanzer
imgtoppm: (A) 1989 Jef Poskanzer
jpegtopnm: (D) 1991-2000 Thomas G. Lane, Bryan Henderson
leaftoppm: (A) 1994 Bill O'Donnell
lispmtopgm: (A) 1988 Jef Poskanzer, Jamie Zawinski
macptopbm: (A) 1988 Jef Poskanzer
mdatopbm: (C) 1999 John Elliott <jce@seasip.demon.co.uk>
mgrtopbm: (A) 1989 Jef Poskanzer
mtvtoppm: (A) 1989 Jef Poskanzer
neotoppm: (D) 2001 Teemu Hukkanen <tjhukkan@iki.fi>
palmtopnm: (A) 1995-2000 Ian Goldberg, Bill Janssen
pamcut: (A) 1989 Jef Poskanzer
pamdeinterlace (H1) 2001 Bryan Henderson
pamdice (H1) 2001 Bryan Henderson
pamfile: (A) 1991 Jef Poskanzer
pamoil: (A) 1990 Wilson Bent <whb@hoh-2.att.com>
pamstack (H1) 2002 Bryan Henderson
pamstretch (C) 1998,2000 Russell Marks (as pnminterp)
pamstretch-gen (H1) 1999 Russell Marks (as pnmiinterp-gen)
pbmclean: (A) 1989-2001 Jef Poskanzer, Angus Duggan, Michael Sternberg
pbmlife: (A) 1988-1991 Jef Poskanzer
pbmmake: (A) 1988 Jef Poskanzer
pbmmask: (A) 1989-1991 Jef Poskanzer
pbmpage: (C) 1998 Tim Norman
pbmncscale: (A) 1989-1990 Jef Poskanzer, Angus Duggan
pbmreduce: (A) 1989 Jef Poskanzer
pbmtexps: (A) 2002 James McCann
pbmtex: (A) 1991 Jef Poskanzer
pbmto10x: (A) 1990-1994 Ken Yap
pbmtoaacii: (A) 1988-1992 Jef Poskanzer
pbmtoatk: (A) 1991 Bill Janssen
pbmtoobnbg: (A) 1989 Mike Parker
pbmtocmuwm: (A) 1989 Jef Poskanzer
pbmtoei: (A) 1988 Jef Poskanzer
pbmtoeip: (A) 1990 Jef Poskanzer, John Tiller <tiller@galois.msfc.nasa.gov>
pbmtog3: (A) 1989 Paul Haeberli <paul@manray.sgi.com>
pbmtogem: (A) 1988 Jef Poskanzer, David Beckemeyer
pbmtoic: (A) 1988-1989 Jef Poskanzer, Michael Haberler, Bo Thide'
pbmtocmuwm: (A) 1989 Jef Poskanzer
pbmtolj: (A) 1988 Jef Poskanzer, Michael Haberler
pbmtomacp: (A) 1988 Douwe vand der Schaaf
pbmtomda: (C) 1999 John Elliott <jce@seasip.demon.co.uk>
pbmtomgr: (A) 1989 Jef Poskanzer
pbmtomonokia: (A) 2001 OMS Open Media System GmbH, Tim Rhsen <tim.ruehsen@openmediasystem.de>
pbmtopg: (A) 1989-1990 Jef Poskanzer, Angus Duggan
pbmtopi3: (A) 1988 David Beckemeyer and Jef Poskanzer
pbmtoplot: (A) 1990 Arthur David Olson
pbmtoppg3: (C) 1998 Tim Norman
pbmtopsg3: (C) 2001 Kristof Koehler <kristof@fachschaft.physik.uni-kalsruhe.de>
pbmtopx: (A) 1988 Jef Poskanzer
pbmtowbmp: (A) 1999 Terje Sannum <terje@looplab.com>
pbmtoxbmp: (A) 1988 Jef Poskanzer
pbmtotbmp: (A) 1988 Jef Poskanzer
pbmtotyrp: (A) 1991 Jamie Zawinski and Jef Poskanzer
pbmtotzinc: (A) 1988 James Darrell McCauley <jdm5548@diamond.tamu.edu>, Jef Poskanzer
pbmupc: (A) 1988 Jef Poskanzer
pcttoppm: (A) 1990 Michael Davidson
pgmbentley: (A) 1990 Wilson Bent <whb@hoh-2.att.com>
pgmcrater: (H) 1989 John Walker <kelvin@autodesk.com>
pgmedge: (A) 1989 Jef Poskanzer
pgmenhance: (A) 1989-1991 Jef Poskanzer
pgmhists: (A) 1989 Jef Poskanzer
pgmkernel: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pgmnoise: (A) 1993 Frank Neumann
pgmramp: (A) 1989 Jef Poskanzer
pgmslice: (C) 2000 Jos Dingjan <jos@tuatha.org>
pgmtex: (A) 1991 Texas Agricultural Experiment Station, James Darrell McCauley
pgmtofs: (A) 1991 Jef Poskanzer
pgmtolism: (A) 1991 Jamie Zawinski and Jef Poskanzer
pgmtophm: (A) 1989 Jef Poskanzer
pgmtoppm: (A) 1991 Jef Poskanzer
pi1topm: (A) 1991 Steve Belczyk <seb3@gte.com> and Jef Poskanzer
pi3topbm: (A) 1988 David Beckemeyer and Diomidis D. Spinellis
pi3toppm: (A) 1990 Christos Zoulas <christos@ee.cornell.edu>
pngtopm: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willem@schailk.com>
pnmalias: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pnmarith: (A) 1989-1991 Jef Poskanzer
pnmcat: (A) 1989-1991 Jef Poskanzer
pnmcolormap: (A) 1989,1991 Jef Poskanzer
pnmcomp: (A) 1992 David Koblas
pnmconvol: (A) 1989-1995 Jef Poskanzer, Mike Burns <burns@chem.psu.edu>
pnmcrop: (A) 1988 Jef Poskanzer
pnmcut: (A) 1989 Jef Poskanzer
pnmdepth: (A) 1989-1991 Jef Poskanzer
pnmfile: (A) 1989,1991 Jef Poskanzer
pnmflip: (A) 1989 Jef Poskanzer
pnmhista: (A) 1991 Jef Poskanzer and Bill Davidson
pnmhisteq: (A) 1995 John Walker <kelvin@fourmalib.ch>
pnmhistmap: (A) 1993 Wilson H. Bent, Jr <whb@usc.edu>
pnmindex: (A) 1991 Jef Poskanzer
pnminvert: (A) 1989 Jef Poskanzer
pnmnmargin: (A) 1991 Jef Poskanzer
pnmontage: (A) 2000 Ben Olmstead
pnmmoll: (A) 1993 Graeme W. Gill <graeme@labtam.oz.au>
pnmnorm: (A) 1989,1991 Jef Poskanzer (as pgmnorm)
   (A) Michael Mauldin (fbnorm-filter in "Fuzzy Pixmap")
   (A) Wilson H. Bent, Jr. (whb@usc.edu) (as ppmmnorm)
   (A) 2002 Bryan Henderson
pnmppad: (A) 1989 Jef Poskanzer
   (A) 1990 Angus Duggan
   (A) 2002 Martin van Beilen
pnmppaste: (A) 1989 Jef Poskanzer
pnmppsr: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
pnmquant: (A) 2002 Bryan Henderson
pnmremap: (A) 1989,1991 Jef Poskanzer (as ppmmquant)
   (A) 2001 Bryan Henderson
pnmrotate: (A) 1989-1991 Jef Poskanzer
pnmselect: (A) 1989-1991 Jef Poskanzer
pnmscalefixed: (A) 1989-1991 Jef Poskanzer
pnmshear: (A) 1989-1991 Jef Poskanzer
pnmsmooth: (A) 1984 Mike Burns <burns@chem.psu.edu>
pnmsplit: (H1) 2000 Bryan Henderson <bryanh@giraffe-data.com>
pnmtile: (A) 1989 Jef Poskanzer
pnmtoddf: (A) 1992 Digital Equipment Corporation, Burkhard Neidecker-Lutz
pnmtofiasco: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
pnmtotiff: (C) 1989 Wilson H. Bent <whb@hoh-2.att.com>
pnmtjpge: (D) 1991-2001 Thomas G. Lane, Bryan Henderson
pnmttopalm: (A) 1995-2000 Ian Goldberg, Bill Janssen
pnmtoplainpnm: (A) 1991 Jef Poskanzer
pnmtopng: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaiik <willem@schaiik.com>
pnmtops: (A) 1989 Jef Poskanzer
pnmtorast: (A) 1989-1991 Jef Poskanzer
pnmtorle: (E) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pnmtosgi: (A) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
pnmosir: (A) 1991 Marvin Landis
pnmtotiff: (A) 1990 Sun Microsystems, Inc, Jef Poskanzer
pnmtotiffcmyk: (C) 1999 Andrew Cooke (Jara Software) <jara@andrewcooke.free-online.co.uk>
pnmtowxd: (A) 1989-1991 Jef Poskanzer
ppm3d: (A) 1989 Jef Poskanzer
ppmbrighten: (A) 1989-1990 Jef Poskanzer, Brian Moffet
ppmchange: (A) 1991 Wilson H. Bent, Jr
ppmcie: (H) 1995 John Walker <kelvin@fourmilab.ch>
pmmcormask: (H1) 2000 Bryan Henderson <bryanh@giraffe-data.com>
pmmcolors: (H) 2001 Bryan Henderson
ppmdim: (A) 1993 Frank Neumann
ppmdist: (A) 1993 Dan Stromberg
ppmdither: (A) 1991 Christos Zoulas
ppmfade: (?) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pmmflash: (A) 1993 Frank Neumann
ppmforge: (H) 1989 John Walker <kelvin@autodesk.com>
pmmhist: (A) 1989 Jef Poskanzer
ppmlabel: (H) 1995 John Walker <kelvin@fourmilab.ch>
pmmake: (A) 1989 Jef Poskanzer
ppmmix: (A) 1993 Frank Neumann
ppmntsc: (E) 1993 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pmpmat: (A) 1989-1991 Jef Poskanzer
ppmquant: (A) 1989-1991 Jef Poskanzer
ppmquantall: (A) 1991 Jef Poskanzer
ppmqvga: (F) 1991-1992 Bill Davidsen, Lyle Rains <lrains@netcom.com>
pmprainbow: (H2) 2001 Arjen Bax <arjen.bax@cmg.nl>
pmprelief: (A) 1990 Wilson H. Bent, Jr
ppmshadow: (G) 1997 John Walker <kelvin@fourmilab.ch>
pmshift: (A) 1993 Frank Neumann
ppmspread: (A) 1993 Frank Neumann
ppmtoacad: (H) 1991 John Walker <kelvin@autodesk.com>
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<td>Ingo Wilken <a href="mailto:Ingo.Wilken@informatik.uni-oldenburg.de">Ingo.Wilken@informatik.uni-oldenburg.de</a></td>
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<td>(A) 1990</td>
<td>Ken Yap <a href="mailto:ken@cs.rochester.edu">ken@cs.rochester.edu</a></td>
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<td>Lee Benfield <a href="mailto:lee@recoil.org">lee@recoil.org</a></td>
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<td>ppmtoyuvsplit</td>
<td>(A) 1993</td>
<td>Andre Beck <a href="mailto:Andre_Beck@IRS.Inf.TU-Dresden.de">Andre_Beck@IRS.Inf.TU-Dresden.de</a></td>
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xwdtopnm: (A) 1989-1991 Jef Poskanzer
ybmtopbm: (A) 1988 Jamie Zawinski and Jef Poskanzer
yuvsplittoppm: (A) 1993 Marcel Wijkstra <wijkstra@fwi.uva.nl>
zeisstoppn: (A) 1993 Oliver Trepte <oliver@fysik4.kth.se>

The following packages were included in this package, but replaced:

- [ bmptoppm: (A) 1992 David W. Sanderson ]
- [ gemtopbm: (A) 1988 Diomidis D. Spinellis ]
- [ pnmnorm: (A) 1989-1991 Jef Poskanzer ]
- [ pnminterpm: (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com> ]
- [ pnminterpgen: (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com> ]
- [ pnmnoraw: (A) 1991 Jef Poskanzer ]
- [ picttoppm: (A) 1989-1993 George Phillips <phillips@cs.ubc.ca> [security]]
- [ ppmnorm: (A) 1989-1991 Jef Poskanzer, Wilson H. Bent, Jr <whb@usc.edu> ]
- [ ppmsvgalib: (H1) 2002 Bryan Henderson [never included in debian]]

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Unisys owns a patent on LZW compression, which is used by ppmtogif,
and maybe on LZW decompression, which is used by giftoppnm. IBM also
owns a patent that may cover the GIF tools. Unisys offers a license
of the patent for trivial use for $5000. Its patent expires in 2003.
Neither company has ever enforced the patent against trivial users of
article dated April 18, 2000 on the issue.
<http://www.unisys.com/unisys/lzw/> is Unisys' view of the matter.
For information from another perspective, see

The following Netpbm components may be restricted by this patent:
ppmtogif, giftoppnm.

A good substitute for GIF if the patents are a problem is PNG (see
pngtopnm, pnmtopng), which was developed with a primary purpose of not
using any patented technology.

You can also use the -nolzw option on ppmtogif to avoid using the LZW
patent. The images so generated are larger than traditional
LZW-compressed GIFs, but any GIF decoder can decode them just the
same.

The jbigtopnm and pnmtojbig programs use arithmetic coding patents and
other patents covering various aspects of the "front end."
1.2123 json-java 2.4.1
1.2123.1 Available under license:

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/**
 * This class holds a JSON object in a LinkedHashMap.
 * LinkedHashMap used to keep fields in same order as they are
 * when reflecting them in Java. Instances of this class hold a
 * Map-of-Map representation of a Java object, read from the JSON
 * input stream.
 *
 * @param <K> field name in Map-of-Map
 * @param <V> Value
 *
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 */

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* /opt/cola/permits/1197390504_1639782416.12/0/json-io-2-4-1-sources.jar/com/cedarsoftware/util/io/JsonObject.java
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/**
 * Read an object graph in JSON format and make it available in Java objects, or
 * in a "Map of Maps." (untyped representation). This code handles cyclic references
 * and can deserialize any Object graph without requiring a class to be 'Serializable'
 * or have any specific methods on it. It will handle classes with non public constructors.
 *<br/>
 * Usages:
 *<ul><li>
 * Call the static method: {@code JsonReader.objectToJava(String json)}. This will
 * return a typed Java object graph.</li>
 */
* Call the static method: {@code JsonReader.jsonToMaps(String json)}. This will
* return an untyped object representation of the JSON String as a Map of Maps, where
* the fields are the Map keys, and the field values are the associated Map's values. You can
* call the JsonWriter.objectToJava() method with the returned Map, and it will serialize
* the Graph into the identical JSON stream from which it was read.
* 
* Instantiate the JsonReader with an InputStream: {@code JsonReader(InputStream in)} and then call
* {@code readObject()}. Cast the return value of readObject() to the Java class that was the root of
* the graph.
* 
* Instantiate the JsonReader with an InputStream: {@code JsonReader(InputStream in, true)} and then call
* {@code readObject()}. The return value will be a Map of Maps.

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* /opt/cola/permits/1197390504_1639714169.12/0/json-io-2-4-1-sources-
  jar/com/cedarsoftware/util/io/JsonReader.java
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/**
* Output a Java object graph in JSON format. This code handles cyclic
* references and can serialize any Object graph without requiring a class
* to be 'Serializable' or have any specific methods on it.
* 
* Call the static method: {@code JsonWriter.toJson(employee)}. This will
* convert the passed in 'employee' instance into a JSON String.</li>
* 
* Using streams:
* <pre>
* JsonWriter writer = new JsonWriter(stream);
* writer.write(employee);
*/
writer.close();
This will write the 'employee' object to the passed in OutputStream.
</li>
<p>This will output any object graph deeply (or null). Object references are properly handled. For example, if you had A->B, B->C, and C->A, then A will be serialized with a B object in it, B will be serialized with a C object in it, and then C will be serialized with a reference to A (ref), not a redefinition of A.</p>
<br/>
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*/

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/opt/cola/permits/1197390504_1639782416.12/0/json-io-2-4-1-sources-jar/com/cedarsoftware/util/io/JsonWriter.java

1.2124 argparse 0.8.1

1.2125 x-time-rate 0.0.0-20201208040808-7e3f01d25324
1.2125.1 Available under license:

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1.2126 p11-kit 0.23.9-2ubuntu0.1

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1.2127 XmlSec-java 2.3.0

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1.2128 connection-pool 2.2.5

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1.2129 pylint 1.8.3

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1.2130 bcache-tools 1.0.8 2ubuntu0.18.04.1

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1.2131 unzip 6.0-21ubuntu1.1

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mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
eplode.c) was originally written by Mark Adler who submitted it
as public domain code.

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

1.2132 afflib 3.7.16-2build2

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# first address should be used in the submit logs and
# that the second address should be recognized as the
# same person when interacting with Rietveld.
# Please keep the list sorted.

Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <light@google.com>
Sarah Adams <shadams@google.com>
Scott Van Woudenberg <scottvw@gmail.com>
Takashi Matsuo <tmatsuo@google.com>

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Andy Hochhaus <hochhaus@users.noreply.github.com>
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GinFungYJF <645116215@qq.com>
Ian Cottrell <ian.the.hat@gmail.com>
Jay Conrod <jayconrod@gmail.com>
Jeff Grafton <ixdy@users.noreply.github.com>
Jeff Hodges <jeff@somethingsimilar.com>
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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Vyacheslav Kim <kane@sendgrid.com>
Walter Schulze <awalterschulze@gmail.com>
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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod

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tomb - support for clean goroutine termination in Go.

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/*
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package simulator

import (
  "github.com/vmware/govmomi/object"
  "github.com/vmware/govmomi/vim25/methods"
  "github.com/vmware/govmomi/vim25/mo"
  "github.com/vmware/govmomi/vim25/soap"
  "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
  LicenseKey: "00000-00000-00000-00000-00000",
  EditionKey: "eval",
  Name: "Evaluation Mode",
  Properties: []types.KeyAnyValue{
    {Key: "feature",
     Value: types.KeyValue{
       Key: "serialuri:2",
       Value: "Remote virtual Serial Port Concentrator",
     }},
  },
}
key: "feature",
value: types.KeyValue{
key:  "dvs",
value: "vSphere Distributed Switch",
}
}

type LicenseManager struct {
mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
m := &LicenseManager{
    Self = ref
    Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
}

if Map.IsVPX() {
am := Map.Put(&LicenseAssignmentManager{ }).Reference()
m.LicenseAssignmentManager = &am
}
return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{},
}

for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
        body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
        return body
    }
}

m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:     req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
return body
}
func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)
        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[i], license.Labels[i+1:]...)  
                } else {
                    label.Value = req.LabelValue
                }
            return body
        }
    }

    license.Labels = append(license.Labels, types.KeyValue{
        Key: req.LabelKey,
        Value: req.LabelValue,
    })

    return body
}

    body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
body := &methods.QueryAssignedLicensesBody{
Res: &types.QueryAssignedLicensesResponse{},
}

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
if req.EntityId != Map.content().About.InstanceUuid {
id := types.ManagedObjectReference{
    Type: "HostSystem",
    Value: req.EntityId,
}
if Map.Get(id) == nil {
    return body
}
}
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
{
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
},
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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{ % endpanel % }

{ % panel style="info", title="TL;DR" % }

- Copy files to and from Containers in a cluster
# 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

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

## 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>\`

{% sample lang="yaml" %}
```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```  
{% endmethod %}

## 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>\`

{% sample lang="yaml" %}
```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```  
{% endmethod %}

## Specify the Container
Specify the Container within a Pod running multiple containers.

- `\-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\<namespace\>`.

- `\<pod-namespace\>/<pod-name>:<path>`

```
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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#
# Auto-generated with:
# git log --oneline --pretty=format:'%an <%aE>' | sort -u
#
Andreas Jaekle <andreas@jaekle.net>
Dmitri Shuralyov <shurcooL@gmail.com>
Ethan Mosbaugh <emosbaugh@gmail.com>
Soheil Hassas Yeganeh <soheil.h.y@gmail.com>
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amit bezalel <amit.bezalel@hpe.com>
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Andrew Chin <andrew@andrewtchin.com>
Andrew Kutz <akutz@vmware.com>
Anfernee Yongkun Gui <agui@vmware.com>
angystardust <angystardust@users.noreply.github.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aniket Gslab</td>
<td><a href="mailto:aniket.shinde@gslab.com">aniket.shinde@gslab.com</a></td>
</tr>
<tr>
<td>Arran Walker</td>
<td><a href="mailto:arran.walker@zopa.com">arran.walker@zopa.com</a></td>
</tr>
<tr>
<td>Aryeh Weinreb</td>
<td>aryeinrebegmail.com</td>
</tr>
<tr>
<td>Austin Parker</td>
<td><a href="mailto:aparker@apprenda.com">aparker@apprenda.com</a></td>
</tr>
<tr>
<td>Balu Dontu</td>
<td><a href="mailto:bdontu@vmware.com">bdontu@vmware.com</a></td>
</tr>
<tr>
<td>Bastien Barbe</td>
<td><a href="mailto:bastien.barbe.creuly@gmail.com">bastien.barbe.creuly@gmail.com</a></td>
</tr>
<tr>
<td>Bob Killen</td>
<td><a href="mailto:killen.bob@gmail.com">killen.bob@gmail.com</a></td>
</tr>
<tr>
<td>Brad Fitzpatrick</td>
<td><a href="mailto:bradfitz@golang.org">bradfitz@golang.org</a></td>
</tr>
<tr>
<td>Bruce Downs</td>
<td><a href="mailto:bruceadowns@gmail.com">bruceadowns@gmail.com</a></td>
</tr>
<tr>
<td>Cédric Blomart</td>
<td><a href="mailto:cblomart@gmail.com">cblomart@gmail.com</a></td>
</tr>
<tr>
<td>Chris Marchesi</td>
<td><a href="mailto:chrism@vancluevertech.com">chrism@vancluevertech.com</a></td>
</tr>
<tr>
<td>Christian Hltje</td>
<td><a href="mailto:docwhat@gerf.org">docwhat@gerf.org</a></td>
</tr>
<tr>
<td>Clint Greenwood</td>
<td><a href="mailto:cgreenwood@vmware.com">cgreenwood@vmware.com</a></td>
</tr>
<tr>
<td>Cui Haozhi</td>
<td><a href="mailto:cuihaozhi@chinacloud.com.cn">cuihaozhi@chinacloud.com.cn</a></td>
</tr>
<tr>
<td>Danny Lockard</td>
<td><a href="mailto:danny.lockard@banno.com">danny.lockard@banno.com</a></td>
</tr>
<tr>
<td>Dave Tucker</td>
<td><a href="mailto:dave@dtucker.co.uk">dave@dtucker.co.uk</a></td>
</tr>
<tr>
<td>Davide Agnello</td>
<td><a href="mailto:dagnello@hp.com">dagnello@hp.com</a></td>
</tr>
<tr>
<td>David Stark</td>
<td><a href="mailto:dave@davidsstark.name">dave@davidsstark.name</a></td>
</tr>
<tr>
<td>Davinder Kumar</td>
<td><a href="mailto:davinderk@vmware.com">davinderk@vmware.com</a></td>
</tr>
<tr>
<td>Deric Crago</td>
<td><a href="mailto:deric.crago@gmail.com">deric.crago@gmail.com</a></td>
</tr>
<tr>
<td>Doug MacEachern</td>
<td><a href="mailto:dougm@vmware.com">dougm@vmware.com</a></td>
</tr>
<tr>
<td>Eloy Coto</td>
<td><a href="mailto:eloy.coto@gmail.com">eloy.coto@gmail.com</a></td>
</tr>
<tr>
<td>Eric Gray</td>
<td><a href="mailto:egray@vmware.com">egray@vmware.com</a></td>
</tr>
<tr>
<td>Eric Yutao</td>
<td><a href="mailto:eric.yutao@gmail.com">eric.yutao@gmail.com</a></td>
</tr>
<tr>
<td>Erik Hollensbe</td>
<td><a href="mailto:github@hollensbe.org">github@hollensbe.org</a></td>
</tr>
<tr>
<td>Ethan Kaley</td>
<td><a href="mailto:ethan.kaley@emc.com">ethan.kaley@emc.com</a></td>
</tr>
<tr>
<td>Fabio Rapposelli</td>
<td><a href="mailto:fabio@vmware.com">fabio@vmware.com</a></td>
</tr>
<tr>
<td>Faiyaz Ahmed</td>
<td><a href="mailto:ahmedf@vmware.com">ahmedf@vmware.com</a></td>
</tr>
<tr>
<td>forkbomber</td>
<td><a href="mailto:forkbomber@users.noreply.github.com">forkbomber@users.noreply.github.com</a></td>
</tr>
<tr>
<td>FreeBSDly</td>
<td><a href="mailto:qinhuajun@outlook.com">qinhuajun@outlook.com</a></td>
</tr>
<tr>
<td>Gavin Gray</td>
<td><a href="mailto:gavin@infinio.com">gavin@infinio.com</a></td>
</tr>
<tr>
<td>Gavrie Philipson</td>
<td><a href="mailto:gavrie.philipson@elastifile.com">gavrie.philipson@elastifile.com</a></td>
</tr>
<tr>
<td>George Hicken</td>
<td><a href="mailto:ghicken@vmware.com">ghicken@vmware.com</a></td>
</tr>
<tr>
<td>Gerrit Renker</td>
<td><a href="mailto:Gerrit.Renker@ctl.io">Gerrit.Renker@ctl.io</a></td>
</tr>
<tr>
<td>ghombare</td>
<td><a href="mailto:ghombare@vmware.com">ghombare@vmware.com</a></td>
</tr>
<tr>
<td>Hasan Mahmood</td>
<td><a href="mailto:mahmoodh@vmware.com">mahmoodh@vmware.com</a></td>
</tr>
<tr>
<td>Henrik Hodne</td>
<td><a href="mailto:henrik@travis-ci.com">henrik@travis-ci.com</a></td>
</tr>
<tr>
<td>Isaac Rodman</td>
<td><a href="mailto:isaac@eyz.us">isaac@eyz.us</a></td>
</tr>
<tr>
<td>Ivan Porto Carrero</td>
<td><a href="mailto:icarrero@vmware.com">icarrero@vmware.com</a></td>
</tr>
<tr>
<td>James King</td>
<td><a href="mailto:james.king@emc.com">james.king@emc.com</a></td>
</tr>
<tr>
<td>Jason Kincl</td>
<td><a href="mailto:jkincl@gmail.com">jkincl@gmail.com</a></td>
</tr>
<tr>
<td>Jeremy Canady</td>
<td><a href="mailto:jcanady@jackhenry.com">jcanady@jackhenry.com</a></td>
</tr>
<tr>
<td>Jeremy Clerc</td>
<td><a href="mailto:jeremy@clerc.io">jeremy@clerc.io</a></td>
</tr>
<tr>
<td>Jiatong Wang</td>
<td><a href="mailto:wjiatong@vmware.com">wjiatong@vmware.com</a></td>
</tr>
<tr>
<td>Joo Pereira</td>
<td><a href="mailto:joaodrp@gmail.com">joaodrp@gmail.com</a></td>
</tr>
<tr>
<td>Jonas Ausevicius</td>
<td><a href="mailto:jonas.ausevicius@virtustream.com">jonas.ausevicius@virtustream.com</a></td>
</tr>
<tr>
<td>Jorge Sevilla</td>
<td><a href="mailto:jorge.sevilla@rstor.io">jorge.sevilla@rstor.io</a></td>
</tr>
<tr>
<td>Kayrus</td>
<td><a href="mailto:kay.diam@gmail.com">kay.diam@gmail.com</a></td>
</tr>
</tbody>
</table>

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Kevin George <georgek@vmware.com>
leslie-qiwa <leslie.qiwa@gmail.com>
Louie Jiang <jiangl@vmware.com>
maplain <fangyuanl@vmware.com>
Marc Carmier <mcarmier@gmail.com>
Maria Ntalla <maria.ntalla@gmail.com>
Marin Atanasov Nikolov <mmnikolov@vmware.com>
Matt Clay <matt@mystile.com>
Matthew Cosgrove <matthew.cosgrove@dell.com>
Matt Moriarity <matt@mattmoriarity.com>
Mevan Samaratunga <mevansam@gmail.com>
Michal Jankowski <mjankowski@vmware.com>
mingwei <mingwei@smartx.com>
Nicolas Lamirault <nicolas.lamirault@gmail.com>
Omar Kohl <omarkohl@gmail.com>
Parham Alvani <parham.alvani@gmail.com>
Pierre Gronlier <pierre.gronlier@corp.ovh.com>
Pieter Noordhuis <pnoordhuis@vmware.com>
prydin <prydin@vmware.com>
Rowan Jacobs <rojacobs@pivotai.io>
rungern.mei <rungern.mei@gmail.com>
S.alar Onur <conur@vmware.com>
Sergey Ignatov <sergey.ignatov@jetbrains.com>
Steve Purcell <steve@sanityinc.com>
Takaaki Furukawa <takaaki.frkw@gmail.com>
Tamas Eger <tamas.eger@bitrise.io>
tanishi <tanishi503@gmail.com>
Ted Zlatanov <tzz@lifelogs.com>
Thibaut Ackermann <thibaut.ackermann@alcatel-lucent.com>
Trevor Dawe <trevor.dawe@gmail.com>
Uwe Bessle <Uwe.Bessle@iteratec.de>
Vadim Egorov <vegorov@vmware.com>
Vikram Krishnamurthy <vikram.krishnamurthy@vmware.com>
Volodymyr Bobyr <pupsua@gmail.com>
Witold Krecicki <wpk@culm.net>
Yang Yang <yangy@vmware.com>
Yuya Kusakabe <yuuya.kusakabe@gmail.com>
Zacharias Taubert <zacharias.taubert@gmail.com>
Zach Tucker <ztucker@vmware.com>
Zee Yang <zzeey@vmware.com>

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Paul Borman <borman@google.com>
bmatsuo
shawnps
theory
dboverfelt
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    deprecated  = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
    the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present
    in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool
)

// The following statuses are used to indicate the state of support/deprecation in a given release.
all = "all" // show all statuses
)

1.2140 ecc-jsbn 0.1.2

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1.2142 python-idna 2.6 1

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1.2147 kubernetes-cliruntime 0.18.4

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1.2153 python-wrapt 1.9.0-3

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1.2154 librdkafka 1.3.0
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madler@alumni.caltech.edu
*/

src/xxhash.[ch] src/lz4*.ch: git@github.com:lz4/lz4.git e2827775ee80d2ef985858727575df31fc60f1f3

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regexp.c and regexp.h from https://github.com/ccxvii/minilibs sha 875c33568b5a4aa4fb3dd0c52ea98f7f0e5ca684

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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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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
all:: image

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

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

image::$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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Theodore Ts'o
23-June-2007

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 -0400)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un506n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennady Rozental (roggeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Gaugue (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- uni-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- g-mail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brrnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twenry.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrvi (jjarvi -at- osl.iiu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iiu.edu)
Jeremy Siek (jsiek@osl.iiu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Frešl (frel -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjønnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
--- end ---

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NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Expr/MethodCall.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/Transformer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformReadField.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/StackMapTable.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassPoolTail.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Javac.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/web/Webserver.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/web/ControlFlow.java
/*
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Found in path(s):
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/MemberValue.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/EnumMemberValue.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/ByteMemberValue.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/ClassMemberValue.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/MemberValueVisitor.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/FloatMemberValue.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/IntegerMemberValue.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/StringMemberValue.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/ArrayMemberValue.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/BooleanMemberValue.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/LongMemberValue.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/CharMemberValue.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/Annotation.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/ShortMemberValue.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/AnnotationMemberValue.java
  * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
    jar/javassist/bytecode/annotation/DoubleMemberValue.java

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1.2164 helm-sh-helm 3.5.1

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Metadata-Version: 1.1
Name: pathlib2
Version: 2.3.6
Summary: Object-oriented filesystem paths
Home-page: https://github.com/mcmtroffaes/pathlib2
Author: Matthias C. M. Troffaes
Author-email: matthias.troffaes@gmail.com
License: MIT
Description: **As of January 1 2020, this repository will no longer receive any further updates, as Python 2 is no longer supported.**

The `old pathlib <https://bitbucket.org/pitrou/pathlib>`_ module on bitbucket is in bugfix-only mode.
The goal of pathlib2 is to provide a backport of `standard pathlib <http://docs.python.org/dev/library/pathlib.html>`_ module which tracks the standard library module,
so all the newest features of the standard pathlib can be used also on older Python versions.

Download
--------

Standalone releases are available on PyPI:
http://pypi.python.org/pypi/pathlib2/

Development
------------

The main development takes place in the Python standard library: see the `Python developer's guide <http://docs.python.org/devguide/>`_.
In particular, new features should be submitted to the `Python bug tracker <http://bugs.python.org/>`_.

Issues that occur in this backport, but that do not occur not in the standard Python pathlib module can be submitted on`pathlib2 bug tracker <https://github.com/mcmtroffaes/pathlib2/issues>`_.

Documentation
--------------


Refer to the `standard pathlib <http://docs.python.org/dev/library/pathlib.html>`_ documentation.

**Known Issues**

For historic reasons, pathlib2 still uses bytes to represent file paths internally. Unfortunately, on Windows with Python 2.7, the file system encoder (``mcbs``) has only poor support for non-ascii characters, and can silently replace non-ascii characters without warning. For example, ``\u``.encode(sys.getfilesystemencoding())`` results in ``????`` which is obviously completely useless.

Therefore, on Windows with Python 2.7, until this problem is fixed upstream, unfortunately you cannot rely on pathlib2 to support the full unicode range for filenames. See `issue #56 <https://github.com/mcmtroffaes/pathlib2/issues/56>`_ for more details.

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1.2171 jersey-bean-validation 2.25.1

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@version 3.0 (December 2000)

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

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

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

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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Richard Outerbridge

DES core in libhcrypto

D3DES (V5.09) -

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

Written with Symantec’s THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis
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1.2191 wsgiref 0.1.2

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Name: wsgiref
Version: 0.1.2
Summary: WSGI (PEP 333) Reference Library
Home-page: http://cheeseshop.python.org/pypi/wsgiref
Author: Phillip J. Eby
Author-email: web-sig@python.org
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Description: This is a standalone release of the `wsgiref` library to be included in Python 2.5. For the standalone version's documentation, see:

HTML
http://peak.telecommunity.com/wsgiref_docs/

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1.2192 coreos-go-iptables 0.4.5

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1.2193 antlr 0.0.0-20190819145818-b43a4c3a8015

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2014/10/18, sergiusignacius, Srgio Silva, serge.a.silva@gmail.com
2014/10/26, bdkearns, Brian Kearns, bdkearns@gmail.com
2014/10/27, michaelpj, Michael Peyton Jones, michaelpj@gmail.com
2015/01/29, TomLottermann, Thomas Lottermann, tom.lottermann@gmail.com
2015/02/15, pavlo, Pavlo Lysov, pavlikus@gmail.com
2015/03/07, RedTailedHawk, Lawrence Parker, larry@answerrocket.com
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2015/04/06, ojakubcik, Ondrej Jakubcik, ojakubcik@gmail.com
2015/04/29, jszheng, Jinshan Zheng, zheng_js@hotmail.com
2015/05/08, Vicelce, Michael Kriese, michael.kriese@gmx.de
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2015/06/29, jvanzyl, Jason van Zyl, jason@takari.io
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2016/02/18, reitzig, Raphael Reitzig, reitzig[at]cs.uni-kl.de
2016/03/10, mike-lischke, Mike Lischke, mike@lischke-online.de
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Appendix: How to Apply These Terms to Your New Programs

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AES in libhcrypto
rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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DES core in libhcrypto

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code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis
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=head1 NAME
File::Listing - parse directory listing

=head1 SYNOPSIS
use File::Listing qw(parse_dir);
$ENV{LANG} = "C"; # dates in non-English locales not supported
for (parse_dir($ls -l)) {
  ($name, $type, $size, $mtime, $mode) = @$_;
  next if $type ne 'f'; # plain file
  #...
}

# directory listing can also be read from a file
open(LISTING, "zcat ls-IR.gz");
$dir = parse_dir($LISTING, '+0000');

=head1 DESCRIPTION
This module exports a single function called parse_dir(), which can be used to parse directory listings.

The first parameter to parse_dir() is the directory listing to parse. It can be a scalar, a reference to an array of directory lines or a glob representing a filehandle to read the directory listing from.

The second parameter is the time zone to use when parsing time stamps in the listing. If this value is undefined, then the local time zone is assumed.

The third parameter is the type of listing to assume. Currently supported formats are 'unix', 'apache' and 'dosftp'. The default value is 'unix'. Ideally, the listing type should be determined automatically.

The fourth parameter specifies how unparseable lines should be treated. Values can be 'ignore', 'warn' or a code reference. Warn means that the perl warn() function will be called. If a code reference is passed, then this routine will be called and the return value from it will be incorporated in the listing. The default is 'ignore'.

Only the first parameter is mandatory.

The return value from parse_dir() is a list of directory entries. In a scalar context the return value is a reference to the list. The directory entries are represented by an array consisting of [ $filename, $filetype, $filesize, $filetime, $filemode ]. The $filetype value is one of the letters 'f', 'd', 'l' or '?'. The $filetime value is the seconds since Jan 1, 1970. The $filemode is a bitmask like the mode returned by stat().

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* /opt/cola/permits/1138401293_1614281814.28/0/libfile-listing-perl-6-04-orig-1-tar-gz/File-Listing-6.04/lib/File/Listing.pm

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NAME
File::Listing - parse directory listing

SYNOPSIS
use File::Listing qw(parse_dir);
$ENV{LANG} = "C";  # dates in non-English locales not supported
for (parse_dir(`ls -l`)) {
   ($name, $type, $size, $mtime, $mode) = @$_;
   next if $type ne 'f'; # plain file
   #...
}

# directory listing can also be read from a file
open(LISTING, "zcat ls-lR.gz|" );
$dir = parse_dir("*LISTING, '+0000'");

DESCRIPTION
This module exports a single function called parse_dir(), which can be
used to parse directory listings.

The first parameter to parse_dir() is the directory listing to parse. It
can be a scalar, a reference to an array of directory lines or a glob
representing a filehandle to read the directory listing from.

The second parameter is the time zone to use when parsing time stamps in
the listing. If this value is undefined, then the local time zone is
assumed.

The third parameter is the type of listing to assume. Currently
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The fourth parameter specifies how unparseable lines should be treated.
Values can be 'ignore', 'warn' or a code reference. Warn means that the
perl warn() function will be called. If a code reference is passed, then
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* /opt/cola/permits/1181645021_1631212011.5/0/protocol-hpack-1-4-2-zip/protocol-hpack-1.4.2/spec/protocol/hpack/context_spec.rb
* /opt/cola/permits/1181645021_1631212011.5/0/protocol-hpack-1-4-2-zip/protocol-hpack-1.4.2/spec/protocol/hpack/decompressor_spec.rb
* /opt/cola/permits/1181645021_1631212011.5/0/protocol-hpack-1-4-2-zip/protocol-hpack-1.4.2/lib/protocol/hpack/compressor.rb
* /opt/cola/permits/1181645021_1631212011.5/0/protocol-hpack-1-4-2-zip/protocol-hpack-1.4.2/spec/protocol/hpack/compressor_spec.rb
* /opt/cola/permits/1181645021_1631212011.5/0/protocol-hpack-1-4-2-zip/protocol-hpack-1.4.2/spec/protocol/hpack/huffman_spec.rb
* /opt/cola/permits/1181645021_1631212011.5/0/protocol-hpack-1-4-2-zip/protocol-hpack-1.4.2/lib/protocol/hpack/version.rb
* /opt/cola/permits/1181645021_1631212011.5/0/protocol-hpack-1-4-2-zip/protocol-hpack-1.4.2/spec/protocol/hpack_spec.rb
* /opt/cola/permits/1181645021_1631212011.5/0/protocol-hpack-1-4-2-zip/protocol-hpack-1.4.2/tasks/huffman.rb
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1.2211 gogoprotobuf 1.3.2

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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
1.2212 jackson-module-parameter-names

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    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
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1.2220 python3-idna 2.6-1
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Metadata-Version: 1.1
Name: idna
Version: 2.6
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)

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_. 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

Basic functions are simply executed:

```py
# 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:

```bash
$ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```bash
$ python setup.py install
```

This library works with Python 2.6 or later, and Python 3.3 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.

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode('.')
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
    .

You may use the codec encoding and decoding methods using the `idna.codec` module:

.. code-block:: pycon

    # 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 `alabel` or `ulabel` functions if necessary:

.. code-block:: pycon

    # Python 2
    >>> idna.alabel(u'')
    'xn--0zwm56d'

Compatibility Mapping (UTS #46)
++++++++++++++++++++++++++++++++

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, 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 <http://unicode.org/reports/tr46/>`_, 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.

```python
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
... 
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

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.

```python
# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

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

+++++++ 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 2.6+.

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
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Platform: UNKNOWN
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```python
from setuptools import setup

def main():

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

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as 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.

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

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 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',
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        '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',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

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Adam Medzinski <adam.medzinski@gmail.com>
Adam Mitha <adam.mitha@gmail.com>
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Alexander Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Pan <panjl2000@gmail.com> <panjl2000@golangcn.org> <i@andypan.me>
Andy Walker <walkeraj@gmail.com>
Andy Wang <cbeuw.and@gmail.com>
Andy Williams <andy@andy.xyz>
Andy Zhao <andyzhao@google.com>
Andzej Maciusovic <andzej.maciasovic@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Anit Gandhi <anitgandhi@gmail.com>
Ankit Goyal <ankit3goyal@gmail.com>
Anmol Sethi <anmol@aubble.com>
Annirudh Prasad <annirudh@wandb.com>
Anschel Schaffer-Cohen <anschelsc@gmail.com>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony.caninol@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony Fok <foka@debian.org>
Anthony Martin <ality@pbrane.org>
Anthony Sottile <asottile@umich.edu>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Antoine GIRARD <sapk@sapk.fr>
Antoine Martin <antoine97.martin@gmail.com>
Anton Gyllenberg <anton@iki.fi>
Anton Kuklin <anton.a.kuklin@gmail.com>
Antonin Amand <antonin.amand@gmail.com>
Antonio Antelo <aanetlo87@gmail.com>
Antonio Bibiano <antbbn@gmail.com>
Antonio Garcia <garcia.olais@gmail.com>
Antonio Huete Jimenez <tuxillo@quantumachine.net>
Antonio Murdaca <runcom@redhat.com>
Antonio Troina <thoeni@gmail.com>
Anze Kolar <me@akolar.com>
Aofei Sheng <aofei@aofeisheng.com>
Apisak Darakananda <pongad@gmail.com>
Aram Hvrneanu <aram@mgk.ro>
Araragi Hokuto <kanseihonbucho@protonmail.com>
Arash Bina <arash@arash.io>
Arda Gl <ardaguc@gmail.com>
Areski Belaid <areski@gmail.com>
Ariel Mashraki <ariel@mashraki.co.il>
Arkadi Pyuro <arkadi@google.com>
Arlo Breault <arlolra@gmail.com>
Arnaud Ysmal <arnaud.ysmal@gmail.com>
Arne Hormann <arnehormann@gmail.com>
Arnout Engelen <arnout@bztt.net>
Aron Nopanen <aron.nopanen@gmail.com>
Artem Alekseev <artem.alekseev@intel.com>
Artem Khvastunov <artem.khvastunov@jetbrains.com>
Artem Kolin <artemkaxboy@gmail.com>
Arthur Fabre <arthur@arthurfabre.com>
Arthur Khashaev <arthur@khashaev.ru>
Artur M. Wolff <artur.m.wolff@gmail.com>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvindh Rajesh Tamilmani <art@a-30.net>
Ashish Bhate <ab.listsubs@gmail.com>
Ashish Gandhi <ag@ashishgandhi.org>
Asim Shankar <asimshankar@gmail.com>
Assel Meher <asselmeher@gmail.com>
Atin Malaviya <amin@akamai.com>
Ato Araki <ato.araki@gmail.com>
Atsushi Toyama <atsushi.tohyama.160.333@gmail.com>
Audrey Lim <audreylh@gmail.com>
Audrius Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Varialus <varialus@gmail.com>
Aurlien Rainone <aurlien.rainone@gmail.com>
Aurlio A. Heckert <aurium@gmail.com>
Austin Clements <austin@.google.com> <aclements@csail.mit.edu>
Avi Flax <avi@timehop.com>
Aviv Klasquin Komissar <avivklas@gmail.com>
awaw fumin <awawfumin@gmail.com>
Awn Umar <awn@cryptolosophy.io>
Axel Wagner <axel.wagner.hh@googlemail.com>
Ayan George <ayan@ayan.net>
Ayanamist Yang <ayanamist@gmail.com>
Ayke van Laethem <aykevanlaethem@gmail.com>
Aymerick Jhanne <aymerick@jehanne.org>
Ayzat Sadykov <ayzat.ziko.93@gmail.com>
Azat Kaumov <kaumov.a.r@gmail.com>
Baiju Muthukadan <baiju.m.mail@gmail.com>
Balaram Makam <bmakam.qdt@qualcommdatacenter.com>
Balazs Lecz <leczb@google.com>
Baokun Lee <nototon@gmail.com> <bk@golangcn.org>
Barnaby Keene <accounts@southcla.ws>
Bartosz Grzybowski <smelkorm@gmail.com>
Bartosz Oler <brtsz@gmail.com>
Bassam Ojeil <bojeil@gmail.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Cartwright-Cox <Ben@Benjojo.co.uk>
Ben Eitzen <eitzenb@golang.org>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ben Fried</td>
<td><a href="mailto:ben.fried@gmail.com">ben.fried@gmail.com</a></td>
</tr>
<tr>
<td>Ben Haines</td>
<td><a href="mailto:bhainesva@gmail.com">bhainesva@gmail.com</a></td>
</tr>
<tr>
<td>Ben Hoyt</td>
<td><a href="mailto:benhoyt@gmail.com">benhoyt@gmail.com</a></td>
</tr>
<tr>
<td>Ben Hutchings</td>
<td><a href="mailto:ben.hutchings@essensium.com">ben.hutchings@essensium.com</a></td>
</tr>
<tr>
<td>Ben Kraft</td>
<td><a href="mailto:benkraft@khanacademy.org">benkraft@khanacademy.org</a></td>
</tr>
<tr>
<td>Ben Laurie</td>
<td><a href="mailto:benl@google.com">benl@google.com</a></td>
</tr>
<tr>
<td>Ben Lubar</td>
<td><a href="mailto:ben.lubar@gmail.com">ben.lubar@gmail.com</a></td>
</tr>
<tr>
<td>Ben Lynn</td>
<td><a href="mailto:benlynn@gmail.com">benlynn@gmail.com</a></td>
</tr>
<tr>
<td>Ben Olive</td>
<td><a href="mailto:sionide21@gmail.com">sionide21@gmail.com</a></td>
</tr>
<tr>
<td>Ben Schwartz</td>
<td><a href="mailto:bemasc@gmail.com">bemasc@gmail.com</a></td>
</tr>
<tr>
<td>Ben Shi</td>
<td><a href="mailto:powerman1st@163.com">powerman1st@163.com</a></td>
</tr>
<tr>
<td>Ben Toews</td>
<td><a href="mailto:mastahyeti@gmail.com">mastahyeti@gmail.com</a></td>
</tr>
<tr>
<td>Benjamin Barenblat</td>
<td><a href="mailto:bbaren@gmail.com">bbaren@gmail.com</a></td>
</tr>
<tr>
<td>Benjamin Black</td>
<td><a href="mailto:b@b3k.us">b@b3k.us</a></td>
</tr>
<tr>
<td>Benjamin Cable</td>
<td><a href="mailto:cable.benjamin@gmail.com">cable.benjamin@gmail.com</a></td>
</tr>
<tr>
<td>Benjamin Hsieh</td>
<td><a href="mailto:tanookiben@users.noreply.github.com">tanookiben@users.noreply.github.com</a></td>
</tr>
<tr>
<td>Benjamin Peterson</td>
<td><a href="mailto:benjamin@python.org">benjamin@python.org</a></td>
</tr>
<tr>
<td>Benjamin Prosnitz</td>
<td><a href="mailto:bprosnitz@gmail.com">bprosnitz@gmail.com</a></td>
</tr>
<tr>
<td>Benjamin Wester</td>
<td><a href="mailto:bwester@squareup.com">bwester@squareup.com</a></td>
</tr>
<tr>
<td>Benjamin Wuethrich</td>
<td><a href="mailto:benjamin.wuethrich@gmail.com">benjamin.wuethrich@gmail.com</a></td>
</tr>
<tr>
<td>Benny Siegert</td>
<td><a href="mailto:bsiegert@gmail.com">bsiegert@gmail.com</a></td>
</tr>
<tr>
<td>Benoit Sigoure</td>
<td><a href="mailto:tsunanet@gmail.com">tsunanet@gmail.com</a></td>
</tr>
<tr>
<td>Berengar Lehr</td>
<td><a href="mailto:Berengar.Lehr@gmx.de">Berengar.Lehr@gmx.de</a></td>
</tr>
<tr>
<td>Berkant Ipek</td>
<td><a href="mailto:41230766+0xbkt@users.noreply.github.com">41230766+0xbkt@users.noreply.github.com</a></td>
</tr>
<tr>
<td>Bharath Kumar Uppala</td>
<td><a href="mailto:uppala.bharath@gmail.com">uppala.bharath@gmail.com</a></td>
</tr>
<tr>
<td>Bharath Thiruvedula</td>
<td><a href="mailto:tbharath91@gmail.com">tbharath91@gmail.com</a></td>
</tr>
<tr>
<td>Bhavin Gandhi</td>
<td><a href="mailto:bhavin7392@gmail.com">bhavin7392@gmail.com</a></td>
</tr>
<tr>
<td>Bill Neubauer</td>
<td><a href="mailto:wcn@golang.org">wcn@golang.org</a></td>
</tr>
<tr>
<td>Bill O'Farrell</td>
<td><a href="mailto:billo@ca.ibm.com">billo@ca.ibm.com</a></td>
</tr>
<tr>
<td>Bill Prin</td>
<td><a href="mailto:waprin@gmail.com">waprin@gmail.com</a></td>
</tr>
<tr>
<td>Bill Thiede</td>
<td><a href="mailto:couchmoney@gmail.com">couchmoney@gmail.com</a></td>
</tr>
<tr>
<td>Bill Zissimopoulos</td>
<td><a href="mailto:billziss@navimatics.com">billziss@navimatics.com</a></td>
</tr>
<tr>
<td>Billie Harold Cleek</td>
<td><a href="mailto:bhcleek@gmail.com">bhcleek@gmail.com</a></td>
</tr>
<tr>
<td>Billy Lynch</td>
<td><a href="mailto:wlynch@gmail.com">wlynch@gmail.com</a></td>
</tr>
<tr>
<td>Billy Zaelani Malik</td>
<td><a href="mailto:m.billyzaelani@gmail.com">m.billyzaelani@gmail.com</a></td>
</tr>
<tr>
<td>Bjrn Erik Pedersen</td>
<td><a href="mailto:bjorn.erik.pedersen@gmail.com">bjorn.erik.pedersen@gmail.com</a></td>
</tr>
<tr>
<td>Bjorn Tillenius</td>
<td><a href="mailto:bjorn@tillenius.me">bjorn@tillenius.me</a></td>
</tr>
<tr>
<td>Bjorn Tipling</td>
<td><a href="mailto:bjorn.tipling@gmail.com">bjorn.tipling@gmail.com</a></td>
</tr>
<tr>
<td>Blain Smith</td>
<td><a href="mailto:rebelgeek@blainsmith.com">rebelgeek@blainsmith.com</a></td>
</tr>
<tr>
<td>Blake Gentry</td>
<td><a href="mailto:blakesgentry@gmail.com">blakesgentry@gmail.com</a></td>
</tr>
<tr>
<td>Blake Mesdag</td>
<td><a href="mailto:blakemesdag@gmail.com">blakemesdag@gmail.com</a></td>
</tr>
<tr>
<td>Blake Mizerany</td>
<td><a href="mailto:blake.mizerany@gmail.com">blake.mizerany@gmail.com</a></td>
</tr>
<tr>
<td>Blixt</td>
<td><a href="mailto:me@blixt.nyc">me@blixt.nyc</a></td>
</tr>
<tr>
<td>Bob Briski</td>
<td><a href="mailto:tbriski@gmail.com">tbriski@gmail.com</a></td>
</tr>
<tr>
<td>Bob McNaughton</td>
<td><a href="mailto:bobmcn@gmail.com">bobmcn@gmail.com</a></td>
</tr>
<tr>
<td>Bob Potter</td>
<td><a href="mailto:bobby.potter@gmail.com">bobby.potter@gmail.com</a></td>
</tr>
<tr>
<td>Bobby DeSimone</td>
<td><a href="mailto:bobbydesimone@gmail.com">bobbydesimone@gmail.com</a></td>
</tr>
<tr>
<td>Bobby Powers</td>
<td><a href="mailto:bobbypowers@gmail.com">bobbypowers@gmail.com</a></td>
</tr>
</tbody>
</table>
Emil Hessman <emil@hessman.se>
Emil Mursalimov <mursalimovemeel@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Emrecan Bati <emrecanbati@gmail.com>
Eno Compton <enocom@google.com>
Eoghan Sherry <ejsherry@gmail.com>
Eric Biggers <ebiggers@google.com>
Eric Brown <browne@vmware.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@google.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emiliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rutherford <erutherford@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Eric Wang <wangchaogo1990@gmail.com>
Eric Tryzelaar <etryzelaar@gmail.com>
Erik Aigner <aigner.erik@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@gmail.com>
Erik Westrup <erik.westrup@gmail.com>
Erin Masatsugu <erin.masatsugu@gmail.com>
Ernest Chiang <ernest.chiang@htc.com>
Erwin Oegema <blablaechthema@hotmail.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@gmail.com>
Ethan Hur <ethan0311@gmail.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <euank@euank.com>
Eugene Formanenko <mo4islona@gmail.com>
Eugene Kalinin <e.v.kalinin@gmail.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@gmail.com>
Evan Digby <evandigby@gmail.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Evan Klitzke <evan@eklitzke.org>
Evan Kroske <evankroske@gmail.com>
Evan Martin <evan.martin@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Hein Khant Zaw <heinkhantzaw1@gmail.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henrique Vicente <henriquevicente@gmail.com>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyuheng@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Henry Wong <liushuai.wang@elastic.co>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@google.com>
Heschi Kreinick <heschi@gmail.com>
Hidetatsu Yaginuma <ygnmhdtt@gmail.com>
Hilko Bengen <bengen@hilluzination.de>
Himanshu Krishna Srivastava <28himanshu@gmail.com>
Hiroaki Nakamura <hnakamura@gmail.com>
Hiromichi Em <ema.hiro@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <ttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Horacio Duran <horacio.duran@gmail.com>
Horst Rutter <hrutter@gmail.com>
Hossein Sheikh Attar <hattar@google.com>
Hossein Zolfi <hossein.zolfi@gmail.com>
Howard Zhang <howard.zhang@arm.com>
Hsin Tsao <tsao@google.com>
Hsin-Ho Yeh <yhh92u@gmail.com>
Hu Keping <hukeping@huawei.com>
Huan Du <i@huandu.me>
Hugues Bruant <hugues.bruant@gmail.com>
Huy Le <huy.dinh.le.89@gmail.com>
Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>
Hyoyoung Chang <hyoyoung@gmail.com>
Ian Cottrell <iancottrell@gmail.com>
Ian Davis <nospam@iandavis.com>
Ian Gudger <ian@loosescre.ws>
Ian Haken <ihairer@nelflix.com>
Ian Kent <iandkent85@gmail.com>
Ian Lance Taylor <iant@golang.org>
Ian Leue <ian@appboy.com>
Ian Mckay <ianm0036@gmail.com>
Ian Tay <iantay@gmail.com>
Ian Zapolsky <ianzapolsky@gmail.com>
Kyle Spiers <eiais@google.com>
Kyle Wood <kyle@kylewood.cc>
Kyohsei Kadota <lufia@lufia.org>
Kyrylo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lajyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lannm@google.com>
Lanre Adelowo <yo@lanre.wtf>
Lapu Luchini <lapo@lapo.it>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@gmail.com>
Leon Klingele <git@leonklingele.de>
Leonard Wang <wangdeyu0907@gmail.com> <wangdeyu@golangcn.org>
Leonardo Comelli <leonardo.comelli@gmail.com>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lewis Waddicor <nemesismk2@gmail.com>
Liam Haworth <liam@haworth.id.au>
Lily Chung <lilithkchung@gmail.com>
Lingchao Xin <douglarek@gmail.com>
Lion Yang <lion@aosc.xyz>
Liz Rice <liz@lizrice.com>
Lize Cai <lizzzcai1@gmail.com>
Lloyd Dewolf <foolswisdom@gmail.com>
Lluís Batlle i Rossell <viric@viric.name>
Lorenz Bauer <lmb@cloudflare.com>
Lorenz Brun <lorenz@brun.one>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Gazerro <gazerro@open2b.com>
Marco Hennings <marco.hennings@freiheit.com>
Marcus Weiner <marcus.weiner@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuengerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Markucciarelli <mkbuces@gmail.com>
Mark Dain <mark@markdain.net>
Mark Glines <mark@glines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@google.com>
Marko Juhan Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@gmail.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Asquino <martin.asquino@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@gmail.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kreichgauer <martinkr@gmail.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Michael Kasch <michael.kasch@gmail.com>
Michael Kufl <golang@c.michael-kaeufl.de>
Michael Kelly <mjk@google.com>
Michal Lvesque-Dion <mlevesquedion@google.com>
Michael Lewis <mikelikespie@gmail.com>
Michael MacInnis <Michael.P.MacInnis@google.com>
Michael Marineau <michael.marineau@coreos.com>
Michael Matloob <matloob@google.com>
Michael McConville <momconville@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Michael McLoughlin <mmcloughlin@gmail.com>
Michael Munday <mike.munday@ibm.com>
Michael Pearson <miperson@gmail.com>
Michael Piatek <piatek@google.com>
Michael Pratt <mpratt@google.com>
Michael Schaller <michael@5challer.de>
Michael Schurter <michael.schurter@gmail.com>
Michael Shields <mshields@google.com>
Michael Stapelberg <michael@stapelberg.de>  <mstplbrg@googlemail.com>
Michael Steinert <mike.steinert@gmail.com>
Michael T. Jones <mtj@google.com>  <michael.jones@gmail.com>
Michael Teichgrber <mteichgraeber@gmx.de>  <mt4swm@googlemail.com>
Michael Traver <mtraver@google.com>
Michael Vetter <g.bluehut@gmail.com>
Michael Vogt <mvo@ubuntu.com>
Michail Kargakis <mkargaki@redhat.com>
Michal Bohuslvek <mbohuslavek@gmail.com>
Michal Cierniak <cierniak@gmail.com>
Micha Derkacz <ziutek@lnet.pl>
Michal Franc <lam.michal.franc@gmail.com>
Micha owicki <mtlowicki@gmail.com>
Michal Pristas <michal.pristas@gmail.com>
Michal Rostecki <mrostekci@suse.de>
Michal Stokluska <mstoklus@redhat.com>
Michalis Kargakis <michaliskargakis@gmail.com>
Michel Lespinasse <walken@google.com>
Michel Levieux <mlevieux42@gmail.com>
Michele Di Pede <michele.di.pede@gmail.com>
Mickael Kerjean <mickael.kerjean@gmail.com>
Mickey Reiss <mickeyreiss@gmail.com>
Miek Gieben <miek@miek.nl>  <remigius.gieben@gmail.com>
Miguel Acero <acero@gmail.com>
Miguel Mendez <stxmenendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todor@mihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Open Source Used In SMI 2021.01.0-Jan-2022  23985

Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quen-Yian Kao <s101062801@m101.nthu.edu.tw>
Quim Montal <quimmuntal@gmail.com>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Rabin Gaire <ragingaire20@gmail.com>
Radek Simko <radek.simko@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>
Rahul Bajaj <rahulrb0509@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Rahul Wadhwani <rahulwadhwani21@gmail.com>
Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Randy Reddig <randy@alta.software>
Raph Levien <raph@google.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Ravil Bikbulatov <weeellz12@gmail.com>
RaviTeja Pothana <ravi.tezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Ray Wu <ray@liftoff.io>
Raymond Kastauskas <raim220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Remy Oudompheng <oudomphe@phare.normalesup.org> <remelyoudompheng@gmail.com>
Ren Ogaki <re.yuz77777@gmail.com>
Rens Rikkerink <ilkerens@users.noreply.github.com>
Rhys Hiltnert <rhys@justin.tv>
Ricardo Padilha <ricardopadilha@gmail.com>
Ricardo Pchevuzinske Katz <ricardo.katz@serpro.gov.br>
Ricardo Seriani <ricardo.seriani@gmail.com>
Richard Barnes <rlb@ipv.sx>
Richard Crowley <rcrowley.org>
Richard Dingwall <rdingwall@gmail.com>
Richard Eric Gavaletz <gavaletz@gmail.com>
<table>
<thead>
<tr>
<th>Roman Kollr</th>
<th><a href="mailto:roman.kollar.0@gmail.com">roman.kollar.0@gmail.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Roman Shchekin</td>
<td><a href="mailto:mrqtro@gmail.com">mrqtro@gmail.com</a></td>
</tr>
<tr>
<td>Ron Hashimoto</td>
<td><a href="mailto:mail@h2so5.net">mail@h2so5.net</a></td>
</tr>
<tr>
<td>Ron Minnich</td>
<td>&lt;<a href="mailto:rminnich@gmail.com">rminnich@gmail.com</a></td>
</tr>
<tr>
<td>Ronnie Ebrin</td>
<td><a href="mailto:ebrin.ronnie@protonmail.com">ebrin.ronnie@protonmail.com</a></td>
</tr>
<tr>
<td>Ross Chater</td>
<td><a href="mailto:rdchater@gmail.com">rdchater@gmail.com</a></td>
</tr>
<tr>
<td>Ross Kinsey</td>
<td><a href="mailto:rosskinsey@gmail.com">rosskinsey@gmail.com</a></td>
</tr>
<tr>
<td>Ross Light</td>
<td><a href="mailto:light@google.com">light@google.com</a></td>
</tr>
<tr>
<td>Ross Smith II</td>
<td><a href="mailto:ross@smithii.com">ross@smithii.com</a></td>
</tr>
<tr>
<td>Rowan Marshall</td>
<td><a href="mailto:rowanajmarshall@gmail.com">rowanajmarshall@gmail.com</a></td>
</tr>
<tr>
<td>Rowan Worth</td>
<td><a href="mailto:sqweek@gmail.com">sqweek@gmail.com</a></td>
</tr>
<tr>
<td>Rudi Kramer</td>
<td><a href="mailto:rudi.kramer@gmail.com">rudi.kramer@gmail.com</a></td>
</tr>
<tr>
<td>Rui Ueyama</td>
<td><a href="mailto:ruiu@gmail.com">ruiu@gmail.com</a></td>
</tr>
<tr>
<td>Ruixin Bao</td>
<td><a href="mailto:ruixin.bao@ibm.com">ruixin.bao@ibm.com</a></td>
</tr>
<tr>
<td>Ruslan Andreev</td>
<td><a href="mailto:ruslan.andreev@huawei.com">ruslan.andreev@huawei.com</a></td>
</tr>
<tr>
<td>Ruslan Nigmatullin</td>
<td><a href="mailto:elessar@dropbox.com">elessar@dropbox.com</a></td>
</tr>
<tr>
<td>Russ Cox</td>
<td><a href="mailto:rsc@golang.org">rsc@golang.org</a></td>
</tr>
<tr>
<td>Russell Haering</td>
<td><a href="mailto:russelthaering@gmail.com">russelthaering@gmail.com</a></td>
</tr>
<tr>
<td>Ryan Bagwell</td>
<td><a href="mailto:ryanbagwell@outlook.com">ryanbagwell@outlook.com</a></td>
</tr>
<tr>
<td>Ryan Barrett</td>
<td><a href="mailto:ryanb@gmail.com">ryanb@gmail.com</a></td>
</tr>
<tr>
<td>Ryan Boehning</td>
<td><a href="mailto:ryan.boehning@apcera.com">ryan.boehning@apcera.com</a></td>
</tr>
<tr>
<td>Ryan Brown</td>
<td><a href="mailto:ribrdb@gmail.com">ribrdb@gmail.com</a></td>
</tr>
<tr>
<td>Ryan Canty</td>
<td><a href="mailto:jrcantz@gmail.com">jrcantz@gmail.com</a></td>
</tr>
<tr>
<td>Ryan Dahl</td>
<td><a href="mailto:ry@tinyclouds.org">ry@tinyclouds.org</a></td>
</tr>
<tr>
<td>Ryan Hitchman</td>
<td><a href="mailto:hitchmanr@gmail.com">hitchmanr@gmail.com</a></td>
</tr>
<tr>
<td>Ryan Kohler</td>
<td><a href="mailto:ryankohler@gmail.com">ryankohler@gmail.com</a></td>
</tr>
<tr>
<td>Ryan Lower</td>
<td><a href="mailto:rpjlower@gmail.com">rpjlower@gmail.com</a></td>
</tr>
<tr>
<td>Ryan Roden-Current</td>
<td><a href="mailto:ryan@rcorre.net">ryan@rcorre.net</a></td>
</tr>
<tr>
<td>Ryan Seys</td>
<td><a href="mailto:ryan@ryanseysts.com">ryan@ryanseysts.com</a></td>
</tr>
<tr>
<td>Ryan Slade</td>
<td><a href="mailto:ryanaslate@gmail.com">ryanaslate@gmail.com</a></td>
</tr>
<tr>
<td>Ryan Zhang</td>
<td><a href="mailto:ryan.zhang@docker.com">ryan.zhang@docker.com</a></td>
</tr>
<tr>
<td>Ryoichi KATO</td>
<td><a href="mailto:ryo1kato@gmail.com">ryo1kato@gmail.com</a></td>
</tr>
<tr>
<td>Ryoya Sekino</td>
<td><a href="mailto:ryoyasekino1993@gmail.com">ryoyasekino1993@gmail.com</a></td>
</tr>
<tr>
<td>Ryuji Iwata</td>
<td><a href="mailto:qt.luigi@gmail.com">qt.luigi@gmail.com</a></td>
</tr>
<tr>
<td>Ryuma Yoshida</td>
<td><a href="mailto:ryuma.y1117@gmail.com">ryuma.y1117@gmail.com</a></td>
</tr>
<tr>
<td>Ryuzo Yamamoto</td>
<td><a href="mailto:ryuzo.yamamoto@gmail.com">ryuzo.yamamoto@gmail.com</a></td>
</tr>
<tr>
<td>S.alar Onur</td>
<td><a href="mailto:caglar@10ur.org">caglar@10ur.org</a></td>
</tr>
<tr>
<td>Sabin Mihai Rapan</td>
<td><a href="mailto:sabin.rapan@gmail.com">sabin.rapan@gmail.com</a></td>
</tr>
<tr>
<td>Sad Pencil</td>
<td><a href="mailto:sqh06@qq.com">sqh06@qq.com</a></td>
</tr>
<tr>
<td>Sai Cheemalapati</td>
<td><a href="mailto:saicheems@gmail.com">saicheems@gmail.com</a></td>
</tr>
<tr>
<td>Sai Kiran Dasika</td>
<td>&lt;<a href="mailto:kirandasika30@gmail.com">kirandasika30@gmail.com</a></td>
</tr>
<tr>
<td>Sakeven Jiang</td>
<td><a href="mailto:jce5930@sina.cn">jce5930@sina.cn</a></td>
</tr>
<tr>
<td>Salaheddin M. Mahmud</td>
<td><a href="mailto:salah.mahmud@gmail.com">salah.mahmud@gmail.com</a></td>
</tr>
<tr>
<td>Salmn Aljammz</td>
<td>&lt;<a href="mailto:s@0x65.net">s@0x65.net</a></td>
</tr>
<tr>
<td>Sam Arnold</td>
<td><a href="mailto:samold64@bloomberg.net">samold64@bloomberg.net</a></td>
</tr>
<tr>
<td>Sam Boyer</td>
<td><a href="mailto:tech@samboyer.org">tech@samboyer.org</a></td>
</tr>
<tr>
<td>Sam Chen</td>
<td><a href="mailto:chenxsun@gmail.com">chenxsun@gmail.com</a></td>
</tr>
<tr>
<td>Sam Cross</td>
<td><a href="mailto:samgcdev@gmail.com">samgcdev@gmail.com</a></td>
</tr>
</tbody>
</table>

**Open Source Used In SMI 2021.01.0-Jan-2022 23987**
Shivani Singhal <shivani.singhal2804@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shivashis Padhi <shivashispadhi@gmail.com>
Shoshin Nikita <shoshin_nikita@fastmail.com>
Shota Sugiura <ss.shota.710.3506@gmail.com>
Shubham Sharma <shubham.sha12@gmail.com>
Shuhei Takahashi <nya@chromium.org>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simo Gomes Viana <simoga@gmail.com>
Simarpreet Singh <simar@linux.com>
Simon Drake <simondrake1990@gmail.com>
Simon Ferquel <simon.ferquel@docker.com>
Simon Frei <freisim93@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Rozman <simon@rozman.si>
Simon Ser <contact@emersion.fr>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>
Sokolov Yura <funny=falcon@gmail.com>
Song Gao <song@gao.io>
Song Lim <songlim327@gmail.com>
Songjiayang <songjiayang1@gmail.com>
Songlin Jiang <hollowman@hollowman.ml>
Soojin Nam <jsunam@gmail.com>
Sren L. Hansen <soren@linux2go.dk>
Sparrow Li <liyuancylx@gmail.com>
Spencer Kocot <spencerkocot@gmail.com>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@gmail.com>
Spenser Black <spenserblack01@gmail.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@gmail.com>
Sridhar Venkatakrishnan <sridhar@ladoo.net>
Srinidhi Kaushik <shrinidhi.kaushik@gmail.com>
StalkR <stalkr@stalkr.net>
Stan Hu <stanhu@gmail.com>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <sphp.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baepler <sbaepler@outbrain.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabalin <neverliberty@gmail.com>
Stephan Klatt <stephan.klatt@gmail.com>
Stephan Renatus <srenatus@chef.io>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsumo@google.com>
Takashi Mima <tks.m1205@gmail.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tams Gulcsi <tgulacsi78@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Qingyun <qingyunhua@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiko Tsujikawa <tatsuhiko.t@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Narendra <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tantam <acoshift@gmail.com>
The Hatsune Daishi <nna20010128@gmail.com>
Thiago Avelino <@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thom Wiggers <thom@thomwiggers.nl>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@google.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@gmail.com>
Thomas de Zeeuw <thomasdezeew@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@google.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Symborski <thomas.symborski@gmail.com>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjorhnsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tianji Wu <the729@gmail.com>
Zhengyu He <hzy@google.com>
Zhongpeng Lin <zplin@uber.com>
Zhongtao Chen <chenzhongtao@126.com>
Zhongwei Yao <zhongwei.yao@arm.com>
Zhou Guangyuan <zhouguangyuan.xian@gmail.com>
Zhou Peng <p@ctriple.cn>
Ziad Hatahet <hatahet@gmail.com>
Ziheng Liu <1zhfromustc@gmail.com>
Zizhao Zhang <btw515wolf2@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
Zvonimir Pavlinovic <zpavlinovic@gmail.com>
Zyad A. Ali <zyad.ali.me@gmail.com>
<a.maksadbek@gmail.com>
<max.faceless.fre@gmail.com>
<hagen1778@gmail.com>
<tunyk@gmail.com>
<faxriddinjon@gmail.com>
<rz349596@gmail.com>
<bronze1me@gmail.com>
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clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
  These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
  except the first one, were first implemented in the Buildtool project.
  They were later adapted to be part of Boost.Process and, during that
  process, the shell script was created.

  Author: Julio Merino <jmmv84@gmail.com>

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--> $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <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"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
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</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="document('')/book/info/copyright | refentry/docinfo/copyright"/>
  </xsl:call-template>
</xsl:variable>
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1.2227 tzinfo-data 1.2021.1

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1.2228 wifi 0.0.0-20190303161829-b1436901dde

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1.2229 spdystream 0.0.0-20160310174837-449fdfce4d96
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1.2230 python-oauthlib 2.0.6-1

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1.2231 x-sys 0.0.0-20201022201747-fb209a7c41cd

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1.2232 kubernetes-client 0.20.4

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* /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate-2.30/lib/Date/Format.pm
* /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate-2.30/lib/Date/Parse.pm

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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
Made available under the same terms as Perl itself.
=cut
Found in path(s):
* /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate2.30/lib/Date/Language/Hungarian.pm
No license file was found, but licenses were detected in source scan.
=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 addresed 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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Krasimir Berov (berov@cpan.org)

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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:

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

Please report any bugs/suggestions to <gbarr@pobox.com>

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Graham <gbarr@pobox.com>

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* /opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate-2.30/README
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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 6.64, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: TimeDate
no_index:
directory:
  - t
  - inc
requires: {}
resources:
  repository: http://github.com/gbarr/perl-TimeDate
  version: 2.30

Found in path(s):
  */opt/cola/permits/1136700276_1613865356.98/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate-2.30/META.yml

1.2234 mattermost-xml-roundtrip-validator
0.0.0-20201213122252-bcd7e1b9601e

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Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Jensen <jensen.aaro@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
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Aaron Stein <aaronstein12@gmail.com>
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Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Aditya Harindar <aditya.harindar@gmail.com>
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Adrian Hesketh <adrianhesketh@hushmail.com>
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Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
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Acio Jnior <aeci@dantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <phpprogger@gmail.com>
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Brad Burch <brad.burch@gmail.com>
Brad Erickson <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <brjones@google.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Bradford Lamson-Scribner <brad.lamson@gmail.com>
Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Branden J. Brown <zephyrtronium@gmail.com>
Brandon Bennett <bbennett@fb.com>
Brandon Gilmore <varz@google.com>
Brandon Philips <brandon@ifup.org>
Brandon Ryan <brjryan19@gmail.com>
Brave Cow <rsr715@gmail.com>
Brayden Cloud <bcloud@google.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O'Dea <bod@golang.org>
Brett Cannon <bnpson@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymond <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darren Grant <darren.e.grant@gmail.com>
Darren McCleary <darren.rmc@gmail.com>
Darshan Parajuli <parajulidarshan@gmail.com>
Datong Sun <dndx@idndx.com>
Dave Borowitz <dborowitz@google.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Pifke <dave@pifke.org>
Dave Russell <forfuncsake@gmail.com>
David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@google.com>
David Bond <davidsbond93@gmail.com>
David Brophy <dave@brophy.uk>
David Bergin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Carlier <devnexen@gmail.com>
David Carter <fresco.raja@gmail.com>
David Chase <drchase@gmail.com>
David Covert <davidhcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@google.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Finkel <david.finkel@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Golden <david@autopragmatic.com>
David Heuschmann <heuschmann.d@gmail.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp.google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Jones <dxjones@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@gmail.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David Qu <davidqu12345@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
Elena Grahovac <elena@grahovac.me>
Elia Bendersky <eliben@google.com>
Elias Naur <email@eliasnaur.com> <elias.naur@gmail.com>
Elliott Morrison-Reed <elliottmr@gmail.com>
Ellison Leao <ellisonleao@gmail.com>
Emerson Lin <linyintor@gmail.com>
Emil Bektimirov <lefelys@gmail.com>
Emil Hessman <emil@hessman.se>
Emil Mursalimov <mursalimovemeel@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Emrecan Bati <emrecanbati@gmail.com>
Eno Compton <enocom@google.com>
Eoghan Sherry <ejsherry@gmail.com>
Eric Biggers <ebiggers@google.com>
Eric Brown <browne@vmware.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@google.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rutherford <erutherford@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Erick Tryzelaar <etryzelaar@google.com>
Erik Aigner <aigner.eric@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@google.com>
Erik Westrup <erik.westrup@gmail.com>
Erie Masatsugu <erine.masatsugu@gmail.com>
Ernest Chiang <ernest_chiang@htc.com>
Erwin Oegema <blablaechthema@hotmail.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@gmail.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <euan@euank.com>
Eugene Formanenko <mo4islona@gmail.com>
Eugene Kalinin <e.v.kalinin@gmail.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@gmail.com>
Evan Digby <evandigby@gmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gergely Brautigam <karlso777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
Gert Cuykens <gert.cuykens@gmail.com>
Getulio Sánchez <valentin2507@gmail.com>
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>
Gianguido Sora' <g.sora4@gmail.com>
Gideons Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @aca (50316549) <acadx0@gmail.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
GitHub User @andig (184815) <cpuidle@gmx.de>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.utf8@gmail.com>
GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <aditzas8@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cch123 (384546) <buaa.cch@gmail.com>
GitHub User @chainhelen (7046329) <chainhelen@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @cnca1 (23520240) <flycalvin@qq.com>
GitHub User @DQNEO (188741) <dqneoo@gmail.com>
GitHub User @Dreamacro (8615343) <chuainian@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @fatedier (7346661) <fatedier@gmail.com>
GitHub User @frennkie (6499251) <mail@rhad.de>
GitHub User @geedchin (11672310) <geedchin@gmail.com>
GitHub User @GrigoriyMikhalkin (3637857) <grigoriy.mikhalkin@gmail.com>
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>
GitHub User @hitzhangjie (3725760) <hit.zhangjie@gmail.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jinniaoluo (39730824) <jinniaoluo@icloud.com>
GitHub User @jopbrown (6345470) <mssshane2008@gmail.com>
GitHub User @kazyshr (30496953) <kazyshr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <ghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @markruler (38225900) <csu0414@gmail.com>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micnncim (21333876) <micnncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @nu50218 (40682920) <nuII@icloud.com>
GitHub User @OlgaVIPetrova (44112727) <OVPpetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @pytimer (17105586) <elixin20101023@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @soolaugust (10558124) <soolaugust@gmail.com>
GitHub User @surechen (7249331) <surechen17@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Green Lightning <GreenLightning.git@googlemail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@google.com>
Greg Thelen <gthelen@google.com>
Greg Ward <greg@gerg.ca>
Gregoire Delattre <gregoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Gregory Petrosyan <gregory.petrosyan@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Ingo Krabbe <ikrabbe.ask@gmail.com>
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>
Ioannis Georgoulas <geototti21@hotmail.com>
Irbe Krumina <irbekrm@gmail.com>
Irfan Sharif <irfanmahmoudsharif@gmail.com>
Irieda Noboru <irieda@gmail.com>
Isaac Ardis <isaac.ardis@gmail.com>
Isaac Wagner <ibw@isaacwagner.me>
Isfan Azhabil <isfanazhabil@gmail.com>
Iskander Sharipov <iskander.sharipov@intel.com> <quasilyte@gmail.com>
Issac Trotts <issactrotts@google.com>
Ivan Babrou <ivan@cloudflare.com>
Ivan Bertona <ivan.bertona@gmail.com>
Ivan Krasin <krasin@golang.org>
Ivan Kutuzov <arbrix@gmail.com>
Ivan Markin <sw@nogoegst.net>
Ivan Moscoso <moscoso@gmail.com>
Ivan Osadchii <ivan.osadchii@gmail.com>
Ivan Sharavuev <shpiwan@gmail.com>
Ivan Trubach <mr.trubach@icloud.com>
Ivan Ukhov <ivan.ukhov@gmail.com>
Ivy Evans <ivy@ivyevans.net>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>
Jaap Aarts <jaap.aarts1@gmail.com>
Jack Britton <jackxbritton@gmail.com>
Jack Lindamood <jlindamo@justin.tv>
Jacob Baskin <jbaskin@gmail.com>
Jacob Blain Christen <dweomer5@gmail.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jacob Walker <jacobwalker0814@gmail.com>
Jaden Teng <long.asyn@gmail.com>
Jae Kwon <jae@tendermint.com>
Jake B <doogie1012@gmail.com>
Jakob Borg <jakob@nym.se>
Jakob Weisblat <jakobw@mit.edu>
Jakub ajka <jaajka@redhat.com>
Jakub Kaczmarzyk <jakubk@mit.edu>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
Jakub Warczarek <jakub.warczarek@gmail.com>
Jamal Carvalho <jamal.a.carvalho@gmail.com>
James Aguilar <jaguiar@gmail.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@gmail.com>
James Clarke <jrte27@jrte27.com>
James Cowgill <James.Cowgill@imgtec.com>
James Craig Burley <james-github@burleyarch.com>
James David Chalfant <james.chalfant@gmail.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Gibb</td>
<td><a href="mailto:johngibb@gmail.com">johngibb@gmail.com</a></td>
</tr>
<tr>
<td>John Gilik</td>
<td><a href="mailto:john@jgilik.com">john@jgilik.com</a></td>
</tr>
<tr>
<td>John Graham-Cumming</td>
<td><a href="mailto:jgc@jgc.org">jgc@jgc.org</a></td>
</tr>
<tr>
<td></td>
<td><a href="mailto:jgrahamc@gmail.com">jgrahamc@gmail.com</a></td>
</tr>
<tr>
<td>John Howard Palevich</td>
<td><a href="mailto:jack.palevich@gmail.com">jack.palevich@gmail.com</a></td>
</tr>
<tr>
<td>John Jeffery</td>
<td><a href="mailto:jjeffery@sp.com.au">jjeffery@sp.com.au</a></td>
</tr>
<tr>
<td>John Jenkins</td>
<td><a href="mailto:twodopeshaggy@gmail.com">twodopeshaggy@gmail.com</a></td>
</tr>
<tr>
<td>John Leidegren</td>
<td><a href="mailto:john.leidegren@gmail.com">john.leidegren@gmail.com</a></td>
</tr>
<tr>
<td>John McCabe</td>
<td><a href="mailto:john@johnmccabe.net">john@johnmccabe.net</a></td>
</tr>
<tr>
<td>John Moore</td>
<td><a href="mailto:johnkenneth.moore@gmail.com">johnkenneth.moore@gmail.com</a></td>
</tr>
<tr>
<td>John Newlin</td>
<td><a href="mailto:jnewlin@oogle.com">jnewlin@oogle.com</a></td>
</tr>
<tr>
<td>John Papandriopoulos</td>
<td><a href="mailto:jpa.code@gmail.com">jpa.code@gmail.com</a></td>
</tr>
<tr>
<td>John Potocny</td>
<td><a href="mailto:johnp@vividcortex.com">johnp@vividcortex.com</a></td>
</tr>
<tr>
<td>John R. Lenton</td>
<td><a href="mailto:jlenton@gmail.com">jlenton@gmail.com</a></td>
</tr>
<tr>
<td>John Schnake</td>
<td><a href="mailto:schnake.john@gmail.com">schnake.john@gmail.com</a></td>
</tr>
<tr>
<td>John Shahid</td>
<td><a href="mailto:jvshahid@gmail.com">jvshahid@gmail.com</a></td>
</tr>
<tr>
<td>John Tuley</td>
<td><a href="mailto:john@tuley.org">john@tuley.org</a></td>
</tr>
<tr>
<td>John Weldon</td>
<td><a href="mailto:johnweldon4@gmail.com">johnweldon4@gmail.com</a></td>
</tr>
<tr>
<td>Johnny Luo</td>
<td><a href="mailto:johnnyluo1980@gmail.com">johnnyluo1980@gmail.com</a></td>
</tr>
<tr>
<td>Jon Chen</td>
<td><a href="mailto:jchen@justin.tv">jchen@justin.tv</a></td>
</tr>
<tr>
<td>Jon Johnson</td>
<td><a href="mailto:jonjohnson@oogle.com">jonjohnson@oogle.com</a></td>
</tr>
<tr>
<td>Jonas Bernoulli</td>
<td><a href="mailto:jonas@bernoulli.li">jonas@bernoulli.li</a></td>
</tr>
<tr>
<td>Jonathan Albrecht</td>
<td><a href="mailto:jonathan.albrecht@ibm.com">jonathan.albrecht@ibm.com</a></td>
</tr>
<tr>
<td>Jonathan Allie</td>
<td><a href="mailto:jonallie@oogle.com">jonallie@oogle.com</a></td>
</tr>
<tr>
<td>Jonathan Amsterdam</td>
<td><a href="mailto:jba@oogle.com">jba@oogle.com</a></td>
</tr>
<tr>
<td>Jonathan Boulle</td>
<td><a href="mailto:jonathanboulle@gmail.com">jonathanboulle@gmail.com</a></td>
</tr>
<tr>
<td>Jonathan Chen</td>
<td><a href="mailto:dijonkitchen@users.noreply.github.com">dijonkitchen@users.noreply.github.com</a></td>
</tr>
<tr>
<td>Jonathan Feinberg</td>
<td><a href="mailto:feinberg@oogle.com">feinberg@oogle.com</a></td>
</tr>
<tr>
<td>Jonathan Gold</td>
<td><a href="mailto:jgold.bg@gmail.com">jgold.bg@gmail.com</a></td>
</tr>
<tr>
<td>Jonathan Hseu</td>
<td><a href="mailto:jhseu@oogle.com">jhseu@oogle.com</a></td>
</tr>
<tr>
<td>Jonathan Mark</td>
<td><a href="mailto:jhmark@xenops.com">jhmark@xenops.com</a> &lt;<a href="mailto:jhmark000@gmail.com">jhmark000@gmail.com</a></td>
</tr>
<tr>
<td>Jonathan Nieder</td>
<td><a href="mailto:jrn@oogle.com">jrn@oogle.com</a></td>
</tr>
<tr>
<td>Jonathan Pentecost</td>
<td><a href="mailto:pentecostjonathan@gmail.com">pentecostjonathan@gmail.com</a></td>
</tr>
<tr>
<td>Jonathan Pittman</td>
<td><a href="mailto:jmpittman@oogle.com">jmpittman@oogle.com</a></td>
</tr>
<tr>
<td>Jonathan Rudenberg</td>
<td><a href="mailto:jonathan@titanous.com">jonathan@titanous.com</a></td>
</tr>
<tr>
<td>Jonathan Stacks</td>
<td><a href="mailto:jonstacks13@gmail.com">jonstacks13@gmail.com</a></td>
</tr>
<tr>
<td>Jonathan Swinney</td>
<td><a href="mailto:jswinney@amazon.com">jswinney@amazon.com</a></td>
</tr>
<tr>
<td>Jonathan Wills</td>
<td><a href="mailto:runningwild@gmail.com">runningwild@gmail.com</a></td>
</tr>
<tr>
<td>Jonathon Lacher</td>
<td><a href="mailto:jonathon.lacher@gmail.com">jonathon.lacher@gmail.com</a></td>
</tr>
<tr>
<td>Jongmin Kim</td>
<td><a href="mailto:atomaths@gmail.com">atomaths@gmail.com</a></td>
</tr>
<tr>
<td>Joonas Kuorilehto</td>
<td><a href="mailto:joneskoo@derbian.fi">joneskoo@derbian.fi</a></td>
</tr>
<tr>
<td>Joop Kiefte</td>
<td><a href="mailto:ikojba@gmail.com">ikojba@gmail.com</a> &lt;<a href="mailto:joop@kiefte.net">joop@kiefte.net</a></td>
</tr>
<tr>
<td>Jordan Christiansen</td>
<td><a href="mailto:xordspar0@gmail.com">xordspar0@gmail.com</a></td>
</tr>
<tr>
<td>Jordan Krage</td>
<td><a href="mailto:jmank88@gmail.com">jmank88@gmail.com</a></td>
</tr>
<tr>
<td>Jordan Lewis</td>
<td><a href="mailto:jordanthelewis@gmail.com">jordanthelewis@gmail.com</a></td>
</tr>
<tr>
<td>Jordan Liggitt</td>
<td><a href="mailto:liggitt@oogle.com">liggitt@oogle.com</a></td>
</tr>
<tr>
<td>Jordan Rhee</td>
<td><a href="mailto:jordanrh@microsoft.com">jordanrh@microsoft.com</a></td>
</tr>
<tr>
<td>Jordan Rupprecht</td>
<td><a href="mailto:rupprecht@oogle.com">rupprecht@oogle.com</a></td>
</tr>
<tr>
<td>Jordi Martin</td>
<td><a href="mailto:jordimartin@gmail.com">jordimartin@gmail.com</a></td>
</tr>
</tbody>
</table>
Justin Gracenin <jgracenin@gmail.com>
Justin Li <git@justinli.net>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justynemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Dong <dokia2357@gmail.com>
Kai Lke <kai@kinvolk.io>
Kai Trukenmller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kalman Bekesi <kalmanb@google.com>
Kamal Aboul-Hosn <aboulhosn@google.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukangustc@gmail.com>
Kanta Ebihara <kantaebihara@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karoly Negyesi <chx1975@gmail.com>
Karsten Khler <karsten.koehler95@gmail.com>
Karthik Nayak <karthik.188@gmail.com>
Kashav Madan <kshvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Katharine Berry <ktbry@google.com>
Katie Hockman <katie@golang.org>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>
Kay Zhu <kayzhu@gmail.com>
Kazuhiro Sera <seratch@gmail.com>
KB Sriram <kbsriram@gmail.com>
Keegan Carruthers-Smith <keegan.csmith@gmail.com>
Kei Son <hey.calmdown@gmail.com>
Keiichi Hirobe <chalenge.akane@gmail.com>
Keiji Yoshida <keijiyoshida.mail@gmail.com>
Keisuke Kishimoto <keisuke.kishimoto@gmail.com>
Keith Ball <inflatablewoman@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <kr@xph.us>
Kelly Heller <pestophagous@gmail.com>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Kemal Elmizan <kemalelmizan@gmail.com>
Ken Friedenbach <kenliz@cruzio.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>
Liz Rice <liz@lizrice.com>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenz Brun <lorenz@brun.one>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcaacoop.it>
Luca Spiller <luca@stackednotion.com>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@google.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmnwilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukengb.com>
Luke Young <bored-engineer@users.noreply.github.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@google.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Mahdi Hosseini Moghaddam <seyed.mahdi.hosseini.moghaddam@ibm.com>
Maia Lee <maia.lee@leftfieldlabs.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishsmail@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@gmail.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manu S Ajith</td>
<td><a href="mailto:neo@codingarena.in">neo@codingarena.in</a></td>
</tr>
<tr>
<td>Manuel Mendez</td>
<td><a href="mailto:mmendez534@gmail.com">mmendez534@gmail.com</a></td>
</tr>
<tr>
<td>Marat Khabibullin</td>
<td><a href="mailto:marat.khabibullin@jetbrains.com">marat.khabibullin@jetbrains.com</a></td>
</tr>
<tr>
<td>Marc Sanmiquel</td>
<td><a href="mailto:marcsanmiquel@gmail.com">marcsanmiquel@gmail.com</a></td>
</tr>
<tr>
<td>Marc Weistroff</td>
<td><a href="mailto:marc@weistroff.net">marc@weistroff.net</a></td>
</tr>
<tr>
<td>Marc-Antoine Ruel</td>
<td><a href="mailto:maruel@chromium.org">maruel@chromium.org</a></td>
</tr>
<tr>
<td>Marcel Edmund Franke</td>
<td><a href="mailto:marcel.edmund.franke@gmail.com">marcel.edmund.franke@gmail.com</a></td>
</tr>
<tr>
<td>Marcel van Lohuizen</td>
<td><a href="mailto:mpvl@golang.org">mpvl@golang.org</a></td>
</tr>
<tr>
<td>Marcelo Cantos</td>
<td><a href="mailto:marcelo.cantos@gmail.com">marcelo.cantos@gmail.com</a></td>
</tr>
<tr>
<td>Marcelo E. Magallon</td>
<td><a href="mailto:marcelo.magallon@gmail.com">marcelo.magallon@gmail.com</a></td>
</tr>
<tr>
<td>Marco Gazerro</td>
<td><a href="mailto:gazerro@open2b.com">gazerro@open2b.com</a></td>
</tr>
<tr>
<td>Marco Hennings</td>
<td><a href="mailto:marco.hennings@freethit.com">marco.hennings@freethit.com</a></td>
</tr>
<tr>
<td>Marcus Weiner</td>
<td><a href="mailto:marcus.weiner@gmail.com">marcus.weiner@gmail.com</a></td>
</tr>
<tr>
<td>Marcus Willock</td>
<td><a href="mailto:crazcalm@gmail.com">crazcalm@gmail.com</a></td>
</tr>
<tr>
<td>Marga Manterola</td>
<td><a href="mailto:marga@google.com">marga@google.com</a></td>
</tr>
<tr>
<td>Mariano Cano</td>
<td><a href="mailto:mariano@smallstep.com">mariano@smallstep.com</a></td>
</tr>
<tr>
<td>Marin Bai</td>
<td><a href="mailto:marin.basic02@gmail.com">marin.basic02@gmail.com</a></td>
</tr>
<tr>
<td>Mario Arranz</td>
<td><a href="mailto:marioarranzr@gmail.com">marioarranzr@gmail.com</a></td>
</tr>
<tr>
<td>Marius A. Eriksen</td>
<td><a href="mailto:marius@grailbio.com">marius@grailbio.com</a></td>
</tr>
<tr>
<td>Marius Nuennerich</td>
<td><a href="mailto:mnu@google.com">mnu@google.com</a></td>
</tr>
<tr>
<td>Mark Adams</td>
<td><a href="mailto:mark@markadams.me">mark@markadams.me</a></td>
</tr>
<tr>
<td>Mark Bucciarelli</td>
<td><a href="mailto:mbucc@gmail.com">mbucc@gmail.com</a></td>
</tr>
<tr>
<td>Mark Dain</td>
<td><a href="mailto:mark@markdain.net">mark@markdain.net</a></td>
</tr>
<tr>
<td>Mark Glines</td>
<td><a href="mailto:mark@glines.org">mark@glines.org</a></td>
</tr>
<tr>
<td>Mark Harrison</td>
<td><a href="mailto:marhar@google.com">marhar@google.com</a></td>
</tr>
<tr>
<td>Mark Percival</td>
<td><a href="mailto:m@mdp.im">m@mdp.im</a></td>
</tr>
<tr>
<td>Mark Pulford</td>
<td><a href="mailto:mark@kyne.com.au">mark@kyne.com.au</a></td>
</tr>
<tr>
<td>Mark Rushakoff</td>
<td><a href="mailto:mark.rushakoff@gmail.com">mark.rushakoff@gmail.com</a></td>
</tr>
<tr>
<td>Mark Ryan</td>
<td><a href="mailto:mark.d.ryan@intel.com">mark.d.ryan@intel.com</a></td>
</tr>
<tr>
<td>Mark Severson</td>
<td><a href="mailto:miquella@gmail.com">miquella@gmail.com</a></td>
</tr>
<tr>
<td>Mark Theunissen</td>
<td><a href="mailto:mark.theunissen@gmail.com">mark.theunissen@gmail.com</a></td>
</tr>
<tr>
<td>Mark Villacampa</td>
<td><a href="mailto:m@markvillacampa.com">m@markvillacampa.com</a></td>
</tr>
<tr>
<td>Mark Wolfe</td>
<td><a href="mailto:mark@wolfe.id.au">mark@wolfe.id.au</a></td>
</tr>
<tr>
<td>Mark Zavislak</td>
<td><a href="mailto:zavislak@gmail.com">zavislak@gmail.com</a></td>
</tr>
<tr>
<td>Marko Juhani Silokunnas</td>
<td><a href="mailto:marko.silokunnas@gmail.com">marko.silokunnas@gmail.com</a></td>
</tr>
<tr>
<td>Marko Kevac</td>
<td><a href="mailto:marko@kevac.org">marko@kevac.org</a></td>
</tr>
<tr>
<td>Marko Kungla</td>
<td><a href="mailto:marko.kungla@gmail.com">marko.kungla@gmail.com</a></td>
</tr>
<tr>
<td>Marko Mikulicic</td>
<td><a href="mailto:mkm@google.com">mkm@google.com</a></td>
</tr>
<tr>
<td>Marko Mudrinic</td>
<td><a href="mailto:mudrinic.mare@gmail.com">mudrinic.mare@gmail.com</a></td>
</tr>
<tr>
<td>Marko Tiikkaja</td>
<td><a href="mailto:marko@joh.to">marko@joh.to</a></td>
</tr>
<tr>
<td>Markus Duft</td>
<td><a href="mailto:markus.duft@salomon.at">markus.duft@salomon.at</a></td>
</tr>
<tr>
<td>Markus Sonderegger</td>
<td><a href="mailto:marraison@gmail.com">marraison@gmail.com</a></td>
</tr>
<tr>
<td>Markus Zimmermann</td>
<td><a href="mailto:zimmski@gmail.com">zimmski@gmail.com</a></td>
</tr>
<tr>
<td>Marten Seemann</td>
<td><a href="mailto:martenseemann@gmail.com">martenseemann@gmail.com</a></td>
</tr>
<tr>
<td>Martin Asquino</td>
<td><a href="mailto:martin.asquino@gmail.com">martin.asquino@gmail.com</a></td>
</tr>
<tr>
<td>Martin Bertschler</td>
<td><a href="mailto:mbertschler@gmail.com">mbertschler@gmail.com</a></td>
</tr>
<tr>
<td>Martin Garton</td>
<td><a href="mailto:garton@gmail.com">garton@gmail.com</a></td>
</tr>
<tr>
<td>Martin Habbecke</td>
<td><a href="mailto:marhab@google.com">marhab@google.com</a></td>
</tr>
</tbody>
</table>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shang Jian Ding <sding3@ncsu.edu>
Shaozhen Ding <dsz0111@gmail.com>
Shaquille Que <shaquille@golang.org>
Shaquille Wyan Que <shaqwy@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
Shawn Elliott <selliott@microsoft.com>
Shawn Ledbetter <sledbetter@google.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengjing Zhu <zsj950618@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
ShihCheng Tu <mrtoastch@gmail.com>
Shijie Hao <haomj@gmail.com>
Shin Fan <shinfan@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shinnosuke Sawada <6warashi9@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivani Singhal <shivani.singhal2804@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shivashis Padhi <shivashispad@gmail.com>
Shubham Sharma <shubham.sha12@gmail.com>
Shun Fan <sfan@gmail.com>
Silvan Jegen <s.jegen@gmail.com>
Simarpreet Singh <simar@linux.com>
Simon Drake <simondrake1990@gmail.com>
Simon Ferquel <simon.ferquel@docker.com>
Simon Frei <freisim93@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Rozman <simon@rozman.si>
Simon Ser <contact@emersion.fr>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chennova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Songjiayang <songjiayang1@gmail.com>
Soojin Nam <jsunam@gmail.com>
Sren L. Hansen <soren@linux2go.dk>
Sparrow Li <liyuancylx@gmail.com>
Spencer Kocot <spencerkocot@gmail.com>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@google.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@google.com>
Sridhar Venkatakrishnan <sridhar@ladoo.net>
Srinidhi Kaushik <shrinidhi.kaushik@gmail.com>
StalkR <stalkr@stalkr.net>
Stan Hu <stanhu@gmail.com>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baebler <sbaebler@outbrain.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabalim <stepanliberty@gmail.com>
Stephan Klatt <stephan.klatt@gmail.com>
Stephan Renatus <renatus@chef.io>
Stephan Zuercher <zuercher@gmail.com>
Stphane Travostino <stephane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen Ma <stepheoir@golang.org>
Stephen McQuay <stephen@mccoyy@gmail.com>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyyst@gmail.com>
Steve Mynott <steve.mynott@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streetering <steve@stevestreetering.com>
Steve Traut <straute@google.com>
Steven Buss <sbus@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Maude <git@stevenmaude.co.uk>
Steven Wilkin <steinewilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Subham Sarkar <sarkar.subhams2@gmail.com>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@dawardlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Walter Poupore <wpoupore@google.com>
Wander Lairson Costa <wcosta@mozilla.com>
Wang Xuerui <git@xen0n.name>
Warren Fernandes <warren.f.fernandes@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@google.com>
Weerasak Chongnguluam <singpor@gmail.com>
Wi Cngru <crvv.mail@gmail.com>
Wei Fu <thfwei@163.com>
Wei Guanqiong <vcc.163@gmail.com>
Wei Xiao <weixiao@arm.com>
Wei Xikai <xykwei@gmail.com>
Weichao Tang <tevic.tt@gmail.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
Wenlei (Frank) He <wlhe@google.com>
Wenzel Lowe <LOWEwenzel@gmail.com>
Wil Selwood <wselwood@gmail.com>
Wilfried Teiken <wteiken@google.com>
Will Beason <willbeason@gmail.com>
Will Chan <willchan@google.com>
Will Faught <will.faught@gmail.com>
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>
Will Norris <willnorris@gmail.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Chang <mr.williamchang@gmail.com>
William Josephson <wjosephson@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
William Poussier <william.poussier@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xry23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xiangdong Ji <xiangdong.ji@arm.com>
Xiaodong Liu <teaofmoli@gmail.com>
Xing Xing <mikespook@gmail.com>
Xingqang Bai <bxq2011hust@qq.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicetalias.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzts@desire.sh>
Yan Zou <yzou@gmail.com>
Yang Hau <vulxj08j8@gmail.com>
Yang Tian <linuxty@gmail.com>
Yann Hodique <yann.hodique@gmail.com>
Yann Kerherv <yann.kerherv@gmail.com>
Yann Salan <yannsalaun1@gmail.com>
Yannie Bonenberger <contact@yannie-bonenberger.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@google.com>
Yaroslav Vorobiov <yar.vorobiov@gmail.com>
Yasha Bubnov <girokompas@gmail.com>
Yasser Abdolmaleki <yasser@yasser.ca>
Yasuharu Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yasuyuki Oka <yasuyk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <ylhl@pdx.edu>
Yesudeep Mangalapilly <yesudeep@google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yohei Takeda <yo.tak0812@gmail.com>
Yongjian Xu <i3dmaster@gmail.com>
Yorman Arias <cixtords@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxzh@cn.ibm.com>
Yuichi Kishimoto <yk2220s@gmail.com>
Yuichi Nishiwaki <yuichi.nishiwaki@gmail.com>
Yuji Yaginuma <yuuiji.yaginuma@gmail.com>
Yuki OKUSHI <huyumi.dev@gmail.com>
Yuki Yugui Sonoda <yugui@gmail.com>
Yukihiro Nishinaka <elpinal@gmail.com>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zhokhover <paulzhov@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gershman <zachgersh@gmail.com>
Zach Jones <zachj1@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Gershman <zgershman@pivotal.io>
Zak <zrjknill@gmail.com>
Zakatell Kanda <hi@zkanda.io>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zhang Boyang <zhangboyang.id@gmail.com>
Zheng Dayu <davidzheng23@gmail.com>
Zheng Xu <zheng.xu@arm.com>
Zhengyu He <hzy@google.com>
Zhongpeng Lin <zplin@uber.com>
Zhongtao Chen <chenzhongtao@126.com>
Zhongwei Yao <zhongwei.yao@arm.com>
Zhou Peng <p@ctriple.cn>
Ziad Hatahet <hatahet@gmail.com>
Ziheng Liu <1zhfromustc@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
Zyad A. Ali <zyad.ali.me@gmail.com>
<a.maksadbek@gmail.com>
<max.faceless.frei@gmail.com>
<hagen1778@gmail.com>
<thunyk@gmail.com>
<faxriddinjon@gmail.com>
<zs349596@gmail.com>
<bronze1man@gmail.com>

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20191004110552-13f9640d40b9
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1.2253 go-openapi-spec 0.20.3

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import (  "encoding/json"  "testing"

  "github.com/stretchr/testify/assert"
)

var license = License{  LicenseProps: LicenseProps{Name: "the name", URL: "the url"},  VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `"name": "the name",  "url": "the url",  "x-license": "custom term"`
func TestIntegrationLicense(t *testing.T) {

// const licenseYAML = "name: the name\nurl: the url"

b, err := json.MarshalIndent(license, "", "\t")
if assert.NoError(t, err) {
  assert.Equal(t, licenseJSON, string(b))
}

actual := License{
  VendorExtensible,
}
err = json.Unmarshal([]byte(licenseJSON), &actual)
if assert.NoError(t, err) {
  assert.EqualValues(t, license, actual)
}

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import (
  "encoding/json"
  "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  LicenseProps
  VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
  Name string `json:"nameomitempty"`
URL string `json:"url,omitempty"`

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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1.2257 open-iscsi 2.1.5

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theory
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1.2270 libpython3-6-minimal 3.6.9-1~18.04ubuntu1.4

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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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Mersenne Twister
----------------

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

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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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1.2277 gopkg.in-tomb 2.0.0-20161208151619-d5d1b5820637

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1.2278 gobject-introspection 1.56.1-1

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C. Scott Ananian
Damien Lespiau
Danielle Madeley
Dan Winship
David Ignacio
David Zeuthen
Didier Ptitjes
dyfet@gnutelephony.org
Eduardo Lima Mitev
Emmanuele Bassi
Florian Mllner
Funda Wang
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1.2279 chardet 4.0.0

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That's all there is to it!

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1.2291 color-string 1.7.4

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1.2293 pysnmp 4.4.5

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if mibBuilder.loadTexts: snmpUsmHmacSha2MIB.setDescription("Definitions of Object Identities needed for the use of HMAC-SHA2 Authentication Protocols by SNMP's User-based Security Model. Copyright (c) 2016 IETF Trust and the persons identified as authors of the code. All rights reserved. Redistribution and use in source and binary forms, with or without modification, is permitted pursuant to, and subject to the license terms contained in, the Simplified BSD License set forth in Section 4.c of the IETF Trust's Legal Provisions Relating to IETF Documents (http://trustee.ietf.org/license-info).")

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* /opt/cola/permits/1229880809_1637279908.44/0/etingof-pysnmp-v4-4-5-0-g8a3727a-1-tar-gz/etingof-pysnmp-8a3727a/pysnmp/carrier/twisted/base.py
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Revision 4.4.5, released 2018-08-05
-----------------------------------
- Added PySnmpError.cause attribute holding parent exception tuple
- Fixed broken InetAddressType rendering caused by a pyasn1 regression
- Fixed typo in RFC1158 module
- Fixed possible infinite loop in GETBULK response PDU builder
- Fixed memory leak in the `config.delContext()` VACM management harness
- Fixed ``Bits` class initialization when enumeration values are given
- Fixed crash caused by incoming SNMPv3 message requesting SNMPv1/v2c security model
- Fixed out-of-scope OIDs leaking at the end of SNMP table at hlapi `nextCmd` and `bulkCmd` calls when ``lexicographicMode = False``

Revision 4.4.4, released 2018-01-03
-----------------------------------
- Copyright notice extended to the year 2018
- Fixed short local key expansion at 3DES key localization implementation.

Revision 4.4.3, released 2017-12-22
-----------------------------------
- Migrated references from SourceForge
- Added missing SHA2 support for Blumenthal key localization
- Fixed named bits handling at rfc1902.Bits
- Fixed missing SmiError exception class at pysnmp.proto.rfc1155
- Fixed SNMP v1->v2c PDU proxy -- error-status & error-index fields from v1 PDU get copied over to v2c PDU in addition to the exception sentinels being set

Revision 4.4.2, released 2017-11-11
-----------------------------------
- The pysnmp version being used gets exposed to the MIB modules via the `MibBuilder` instance
- The `.setObjects()` method of the SMI types now accepts `append=False` parameter to let the caller adding more than 255 elements over the course of multiple calls
- Added support for some more missing fields of SMIv2 MACRO types
- Example scripts rearranged in a way that IPv6 requirement is clearly encoded in the script's name
- Fixed SNMPv2-SMI.NotificationType to expose .set/getReference() instead of .set/getRevision() which should not be there in the first place
- Fixed non-implied-OID encoding in SNMP table indices
- Fixed inconsistent SNMPv3 discovery and retrying algorithm

Revision 4.4.1, released 2017-10-23
-----------------------------------

- HMAC-SHA-2 Authentication Protocols support added (RFC-7860)
- The pycryptodome dependency replaced with pycryptodomex as it is recommended by the upstream to avoid unwanted interference with PyCrypto package should it also be installed
- Sphinx theme changed to Alabaster in the documentation
- Minor adjustments towards pyasn1 0.4.x compatibility
- Fixed ObjectIdentifier-into-ObjectIdentity casting at rfc1902.ObjectType MIB resolution harness
- Fixed NetworkAddress object handling in SNMP table indices
- Fixed MIB lookup by module:object.indices MIB object with InetAddressIPv{4,6} objects being in the index
- Fixed non-translated PDU being retries at CommandGenerator what leads to wrong PDU version being sent and even a crash on incompatible PDU/SNMP message combination

Revision 4.3.10, released 2017-10-06
-----------------------------------

- Refactored partial SNMP message decoding to make it less dependent on unpublished pyasn1 API features.
- Fix to MibTableRow.setFromName() to keep the input parameter type when it propagates to the return value. Before this fix ObjectIdentity.prettyPrint() may crash when rendering malformed SNMP table indices.
- Fixed NotificationReceiver to include SNMPv1 TRAP Message community string into SNMPv2c/v3 TRAP PDU
- Fixed multiple bugs in SNMP table indices rendering, especially the InetAddressIPv6 type which was severely broken.
- Fixed crashing Bits.prettyPrint() implementation
- Fixed crashing Bits.clone() / subtype() implementation
- Fixed leaking exceptions bubbling up from the asyncio and Twisted adapters

Revision 4.3.9, released 2017-07-26
-----------------------------------

- Deprecated UsmUserData initialization parameters removed
- Adapted to pyasn1 API changes introduced by release 0.3.1
- Fix to a crash happening on inbound SNMP message having non-initialized fields
- Fix to (persistent SNMP engine ID) file writing on Windows

Revision 4.3.8, released 2017-06-15
-----------------------------------
- Security fix to the bug introduced in 4.3.6: msgAuthoritativeEngineTime stopped changing over time and was returning the same timestamp (process start time). This fix makes it growing as it should.

Revision 4.3.7, released 2017-05-29
-----------------------------------

* Fixed import error in legacy NotificationOriginator implementation

Revision 4.3.6, released 2017-05-28
-----------------------------------

- More instrumentation hooks added addressing security failures auditing needs.
- SNMP table indices correlation implemented within SMI framework. The opaque InetAddress type implemented. INET-ADDRESS-MIB included into the distribution.
- SNMP table indices resolution logic made more robust against malformed indices.
- Fixes to *lexicographicMode* option documentation to make it unambiguous.
- The `ErrorIndication` object is now derived from `Exception` so that it could be raised in exceptions.
- The `errorIndication` values produced by various parts of SNMP engine unified to be `ErrorIndication` instances. This fixes an issue with Twisted.
- Embedded MIB modules rebuilt with the latest pysmi adding previously missing attributes like `status`, `description` etc.
- Fixed potential SNMP engine crash on handling incoming message at unsupported security level

Revision 4.3.5, released 2017-03-24
-----------------------------------

- The getNext() and getBulk() calls of Twisted interface now support ignoreNonIncreasingOid option.
- TextualConvention is now a new-style class.
- Fix to accidentally reset error-status when building confirmed class SNMPv1 PDU.
- Fix to possible infinite recursion in TextualConvention.prettyIn().
- Fixed crash when attempting to report unsupported request/notification PDU back to sender.

Revision 4.3.4, released 2017-03-01
-----------------------------------

- Fix to low-level SNMP API example to accommodate changed pyasn1
SEQUENCE supporting iterator protocol.
- The pyasn1 version dependency bumped (0.2.3), SEQUENCE/SEQUENCE OF
  API calls adjusted to accommodate changed pyasn1 API (in part
  of .setComponentBy*() kw flags).
- Fixed crash on SNMP engine's invalid message counter increment.

Revision 4.3.3, released 2017-02-04
-----------------------------------

- Switched from now unmaintained PyCrypto to PyCryptodome.
- Switched to new-style classes.
- NotificationType now allows additional var-binds specified as
  MIB objects. A side effect of this change is that additional
  var-binds can only be added prior to .resolveMibObjects() is
  run.
- Non-standard (but apparently used by many vendors) Reeder AES192/256
  key localization algorithm implemented and set as default for
  usmAesCfb192Protocol and usmAesCfb256Protocol identifiers.
  Original and more standard implementation can still be used
  with the usmAesBlumenthalCfb192Protocol and
  usmAesBlumenthalCfb192Protocol IDs respectively.
- TextualConvention.prettyOut() improved to produce prettier and
  more SMI-compliant output.
- TextualConvention.prettyIn() implemented to handle DISPLAY-HINT
  based value parsing.
- Fix to NotificationType to make additional var-binds overriding
  MIB objects implicitly included through NOTIFICATION-TYPE OBJECTS.
- Fix to SNMP engine boots counter persistence on Python 3.
- Fix to Pythonized MIBs loading when only .pyc files are
  present (e.g. py2exe/cx_freeze environments).
- Fix broken 3DES key localization and encryption procedures.
- Updated IP address for demo.snmplabs.com in examples.
- Missing index added to bundled RFC1213::atEntry MIB table.
- Twisted integration made Python3 compatible.
- Accommodated ASN.1 SEQUENCE iteration rules change in upcoming pyasn1 version.
- Author's email changed, copyright extended to 2017.

Revision 4.3.2, released 2016-02-12
-----------------------------------

- Copyright notice added to non-trivial source code files.
- SNMP table row consistency check added. This change may break
  valid SNMP SET operations on tables if RowStatus column is not
  passed at the very end of var-binds.
- All SNMP counters now incremented via ’+= 1’ rather than ’x = x + 1’
  to simplify their tracking by third-party code.
- Notification originator examples re-pointed to Notification Receiver
  at demo.snmplabs.com.
- Two more execution observer points added: rfc2576.processIncomingMsg and rfc3414.processIncomingMsg to give an insight on security modules internals.
- TEXTUAL-CONVENTION's DISPLAY-HINT text formatting reworked for better performance and encoding accuracy of 'a' and 't' formats.
- WARNING: security fix to USM - extra user entry clone removed on incoming message processing. It made USM accepting SNMPv3 TRAPs from unknown SNMP engine IDs.
- Fix to snmplInvalidMsgs and snmpUnknownSecurityModels MIB symbols import at SNMPv3 MP model.
- Fix to NotificationOriginator to cope with unspecified user callable.
- Fix to OctetString.prettyOut() to pretty-print Python 3 bytes without 'b' qualifier.
- Fix to better pysmi import errors handling.
- Fix to missing next() in Python 2.5 at pysnmp.hlapi

Revision 4.3.1, released 2015-11-12
-----------------------------------
- Added recursive resolution of ObjectIdentifier values at ObjectType by converting it to ObjectIdentity.
- A bunch of convenience shortcuts to rfc1902.ObjectIdentity added from rfc1902.ObjectType and rfc1902.NotificationType (.addAsn1MibSource(), .addMibSource(), .loadMibs())
- When pretty printing indices at rfc1902.ObjectType, quote only strings.
- SNMP overview and PySNMP hlapi tutorial added to documentation.
- Fix to __doc__ use in setup.py to make -O0 installation mode working.
- Fix to ObjectIdentity->ObjectIdentifier attributes handover
- Fixed crash at oneliner compatibility code on EOM response.
- Fixed crash in hlapi.transport module.
- Fixed OID resolution issues that roots at node 0 and 2.
- Fix to MIB builder to fail gracefully on corrupted MIB package encounter.
- Fix to docs distribution -- now the are Sphinx-buildable out-of-the-box.
- Source code re-linted

Revision 4.3.0, released 2015-09-28
-----------------------------------
- Critical error fixed in key localization procedure for AES192/AES256/3DES cyphers. Previous versions might never worked properly in this respect.
- Initial PySMI integration. Original ASN.1 MIBs could now be parsed, stored at a local pysnmp MIBs repository and loaded into SNMP Engine. Relevant example scripts added. Obsolete libsmi-based scripts removed.
- Major rewrite of native SNMPv3 CommandGenerator and NotificationOriginator applications towards the following goals:

* avoid binding to specific SNMP engine instance to promote single SNMP app instance using many SNMP engine instances
* support two APIs for working with request data: one operates on the whole PDU object while the other on PDU contents
* keep callback context data in stack rather than in stateful application cache
* newly introduced sendVarBinds() method offers a more functional and logical signatures.
* Promote the use of dedicated classes for dealing with OID-value pairs. Instances of those classes resemble OBJECT-IDENTITY, OBJECT-TYPE and NOTIFICATION-TYPE MIB structures.
* Oneliner API reworked to become more generic: its LCD configuration shortcuts and and var-bindings processing code split off SNMP apps classes to stand-alone objects. The whole API also moved up in package naming hierarchy and becomes 'pysnmp.hlapi.asyncore' (hlapi is apparently an African fish). Old oneliner API remains fully operational at its original location.
* Synchronous oneliner apps redesigned to offer Python generator-based API along with a more comprehensive set of accepted parameters.
* Asyncore-based asynchronous apps reworked to become functions.
* Twisted API moved entirely into high-level domain to be aligned with other high-level APIs. This WILL BREAK backward compatibility for those apps that use Twisted API.
* Keep backward compatibility for all existing major/documented interfaces

- Sphinx documentation added to source code and example scripts. Library documentation converted from .html into RsT markup.
- Execution Observer facility implemented to give app an inside view of SNMP engine inner workings. This is thought to be a generic framework for viewing (and modifying) various internal states of pysnmp engine. Previously introduced non-standard APIs (like getting peer's transport endpoint which is not suggested in RFCs) will be gradually migrated to this new framework.
- Initial support for the asyncio & Trollius frameworks and coroutines-based SNMP Applications interfaces added. Both IPv4 and IPv6 datagram transports are currently supported.
- Original asyncock transport and AsyncockDispatcher renamed into asyncore and AsyncoreDispatcher respectively to provide better hint to fellow devs on the underlying transport being used. Backward compatibility preserved.
- The asyncore-based transport subsystem extended to support POSIX sendmsg()/recvmsg() based socket communication what could be used, among other things, in the context of a transparent SNMP proxy application. Technically, the following features were brought into pysnmp with this update:

* Sending SNMP packets from a non-local IP address
* Receiving IP packets for non-local IP addresses
* Responding to SNMP requests from exactly the same IP address the query was sent to. This proves to be useful when listening
on both primary and secondary IP interfaces.

- Internal oneliner apps configuration cache moved from respective apps objects to [a singular] snmpEngine "user context" object. That would allow for better cache reuse and allow for a single app working with many snmpEngine instances.
- Oneliner GETBULK Command Generator now strips possible excessive OIDs off the bottom of returned var-binds table.
- Constraints assignment shortcut added to some base rfc1902 types (Integer, Integer32, OctetString, Bits). That formally constitutes ASN.1 sub-typing.
- Built-in debugging is now based on Python logging module.
- Examples on a single Transport Dispatcher use with multiple SnmpEngine instances applicatons added.
- Example script on transport timeout & retries manipulation added.
- Example script explaining incoming message's communityName re-mapping added.
- Broadcast socket option can now be enabled with the .enableBroadcast() call for any datagram-based transport (namely, UDP and UDP6).
- AbstractTransportDispatcher's jobStarted() and jobFinished() methods now accept optional 'count' parameter which is a way for an app to indicate how many responses are expected or have been processed in bulk.
- Example script on SNMP Agents UDP broadcast-based discovery added.
- Oneliner transport object now supports setLocalAddress() method to force socket binding to specified local interface.
- New public DgramSocketTransport.getLocalAddress() returns local endpoint address underlying BSD socket is currently bound to.
- Passing request details to access control callback at CommandResponder reworked towards more robust and simple design with the execution observer facility.
- All MIBs rebuilt with pysmi.
- MIB instrumentation example improved to cover table index building facility.
- Handle the case of null writer at Debug printer.
- Do not cache snmpEngineId & snmpAdminString at CommandGenerator to let it be reused with many different snmpEngines.
- TRAP PDU agent address evaluation at proto.api made lazy to improve startup time.
- Multiple fixes to verify pyasn1 decoder.decode() return to withstand broken SNMP messages or its components.
- First attempt made to make some of SNMP Engine settings persistent across reboots.
- Make config.delTransport() returning detached transport object. Asyncio examples now use this facility to explicitly shutdown transport object.
- Parts of SMIv1 remnant MIBs (RFC1213-MIB, RFC1158-MIB) added to provide complete compatibility with SMIv1. Symbols defined in these MIBs only present in SMIv1 so they can't be substituted with their SMIv2 analogues.
- MibBuilder.addMibSources() convenience method added.
- The smi.MibBuilder() will now raise more specific exceptions (MibLoadError, MibNotFoundError) on MIB loading problems rather than more generic SmiError.
- The oneliner's MibVariable MIB lookup subsystem redesigned for more
generality to mimic OBJECT-TYPE macro capabilities related to SNMP
PDU handling. The two new classed are ObjectIdentity and ObjectType.
The ObjectIdentity class additionally supports just a MIB module name
initializer in which case if resolves into either first or last symbol
in given MIB. Another option is just a MIB symbol initializer without
specifying MIB module.
This new subsystem is moved from the scope of oneliner to more common
pysnmp.smi.rfc1903 scope to more naturally invoke it from whatever
part of pysnmp requires MIB services.
- MibBuilder now prepends the contents of environment variables it
recognizes (PYSNMP_MIB_DIR, PYSNMP_MIB_DIRS, PYSNMP_MIB_PKGS) rather
than using them instead of its default core MIBs.
- Removed RowStatus default value as it may collide with possible subclass
constraints.
- A few additional MIB tree management methods added to MibViewController
to better address ordered nature of MIB tree nodes (namely, getFirst*,
getLast* family of methods).
- Wheel distribution format now supported.
- Fix to authoritative engine side snmpEngineID discovery procedure:
respond with notInTimeWindows rather then with unsupportedSecurityLevel
at time synchronization phase.
- Fix to rfc1902.Bits type to make it accepting hex and binary initializers,
cope with missing bits identifiers at prettyPrint().
- Memory leak fixed in CommandForwarder examples.
- Fix to BULK CommandGenerator to use the same nonRepeaters OIDs across
multiple GETBULK iterations so returned table for nonRepeaters columns
would hold the same var-bind.
- Fix to CommandGenerator to make sendRequestHandle persistent across
multiple iterations of GETNEXT/GETBULK queries.
- Fix to sendNotification() error handling at NotificationOriginator.
- Fix to preserve possible 'fixed length' setting atrfc1902.OctetString
on clone()'ing and subtype()'ing.
- Fix to rfc1902.OctetString & Bits to base them on OctetString class to
make the 'fixed length' property working.
- Fix to .clone() method of rfc1902.Bits class to make its signature
matching the rest of classes. This may broke code which used to pass
namedValue parameter positionally rather than binding it by name.
- Fix to PDU translation service (proto.proxy.rfc2576) to make it
initializing errorIndex & errorStatus components of the resulting PDU.
- Fix to MsgAndPduDispatcher.sendPdu() to clean up request queue on
pysnmp-level processing failure.
- Fix to SNMPv1/v2c message processing subsystem to make it serving
unique PDU request-id's in both outgoing and incoming confirmed
and response PDU types. Duplicate request-id's in unrelated PDUs may
cause cache errors otherwise.
- Fix to licensing terms of multiple twisted backend modules to make
the whole pysnmp package licensed under BSD 2-Clause license.
change has been explicitly permitted by the original modules authors.
- Fix to asyncore-based transport not to use asyncore's cheap inheritance
  from socket object what caused warnings.
- Fix at NotificationOriginator to make is using MibInstrumentationController
  when expanding Notification OBJECTS into Managed Objects Instances.
- Missing wrongLength and wrongEncoding SMI errors added.
- Fix to file descriptor leak at MibBuilder.
- Fix to rfc2576.v2ToV1() to ignore impossible errorStatus.
- Fix to rfc2576.v1ToV2() to reset ErrorStatus==noSuchName on proxying.
- Fix to smi.builder to explicitly fail on any MIB file access error
  (but ENOENT) and raise IOError uniformly on any directory/egg access
  failure.
- Fix to infinite loop at config.delV3User().

Revision 4.2.5, released 2013-10-02
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- License updated to vanilla BSD 2-Clause to ease package use
  (http://opensource.org/licenses/BSD-2-Clause).
- A dozen of lightweight Twisted-based example scripts replaced more
  complex example implementations used previously.
- SNMP Proxy example apps separated into a larger set of more specialized
  ones.
- Most of Command Generator examples re-pointed to a live SNMP Agent
  at demo.snmplabs.com to ease experimentation and adoption.
- Multi-threaded oneliner CommandGenerator example added.
- Packet-level SNMP API (pysnmp.proto.api) getErrorIndex() method can now
  be instructed to ignore portentially malformed errorIndex SNMP packet
  value what sometimes happens with buggy SNMP implementations.
- Standard SNMP Apps and built-in proxy now ignores malformed errorIndex
  value.
- Built-in logging now includes timestamps.
- Multi-lingual capabilities of all CommandGenerator & NotificationOriginator
  apps re-worked and improved. For instance it is now it's possible to run
  getBulk() against a SNMPv1 Agent invoking built-in SNMP Proxy behind the
  scene.
- The $PYSNMP_MIB_DIR & $PYSNMP_MIB_DIRS & $PYSNMP_MIB_PKGS path separator
  made platform-specific.
- Change to rfc2576.v1ToV2() logic: errorStatus = noSuchName is now
  translated into rfc1905.noSuchObject exception value for *all* var-bindings
  at once. Although RFC2576 does not suggest error-status -> v2c exception
  translation, historically pysnmp used to perform it for a long time so we
  can't easily stop doing that.
- Exception re-raising improved at MibInstrumController.flipFlopFsm() and
  asyncsock/twisted dispatchers so that original traceback is preserved.
- A single instance of transport dispatcher can now serve multiple
  receivers (identified by IDs) chosen by a public data routing method.
- SnmpEngine.[un]registerTransportDispatcher() methods now accept optional
receiver ID token to be used by transport dispatcher's data router. This
allows for multiple SNMP engines registration with a single transport
dispenser.
- Distribute is gone, switched to setuptools completely.
- The snmpCommunityTable row selection improved to follow RFC2576, clause
5.2.1.
- Asyncore-based dispatcher attempts to use poll() whenever available
on the platform. It would help handling a really large number (>1024)
of file descriptors.
- AsynCommandGenerator.makeReadVarBinds() generalized into a new
makeVarBinds() method which replaces somewhat redundant code at setCmd()
and AsynNotificationOriginator.sendNotification().
- AsynCommandGenerator.uncfgCmdGen() & AsynNotificationOriginator.uncfgCmdGen()
methods now accept optional authData parameter to remove specific entries
from LCD. This can be useful for modifying security parameters for
specific securityName.
- SNMP credentials management reworked to separate userName from securityName
in snmpCommunityEntry and usmUserEntry tables. Changes made to addV1System(),
addV3User() functions as well as to their oneliner's wrappers.
- The contextEngineId parameter of config.addV3User() and auth.UsmUserData()
renamed into securityEngineId as it's semantically correct
- Oneliner UsmUserData() and CommunityData() classes now support clone()'ing
to facilitate authentication data management in user applications.
- Oneliner transport target classes now support the getTransportInfo()
method that returns network addresses used on protocol level.
- Oneliner CommandGenerator.getNext() & .getBulk() methods now support the
maxCalls kwarg to limit the maximum number of iterations to perform.
- The config.addSocketTransport() helper renamed into config.addTransport()
and improved by automatically instantiating compatible TransportDispatcher
making it dispatcher-agnostic. As an additional bonus, application may not
call registerTransportDispatcher() as it would be called by addTransport().
- The SnmpV3MessageProcessingModel.getPeerEngineInfo() method is implemented
to communicate discovered peer SNMP engine information to SNMP apps what
can be used for fine usmUserTable configuration.
- AsynNotificationOriginator.cfgCmdGen() does not take into account
securityModel & securityLevel when reducing LCD access via addTrapUser().
This improves LCD consistency on sparse add/del operatons but also
does not let you to configure different securityModels per securityName
at VACM though the cfgCmdGen() wrapper.
- MIB builder traceback formatting and reporting improved.
- SNMP Engine object now has a snmpEngineID attribute exposed.
- Fix to inet_ntop()/inet_pton() support on Windows at TRANSPORT-ADDRESS-MIB.
- Fix to usmUserSecurityName table column implementation -- automatic value
generation from index value removed.
- Fix and significant logic rework of snmpCommunityTable to make it working
in both Generator and Responder modes and better follow RFC2576
requirements on sequential entries lookup and selection. As a side effect,
untagged snmpCommunityTable entries will *not* match tagged
- snmpTargetAddrTable entries and vice versa.
- Fix to Twisted-based NotificationOriginator to make it serving INFORMs again.
- Fix to rfc2576.v1tov2() logic: errorStatus = noSuchName is now translated into rfc1905.noSuchObject exception value for *all* var-bindings. Although this is not mentioned in RFC, it looks as a more consistent approach.
- Fix of rounding error to base I/O dispatcher's next timer call calculation.
- Explicit twisted dispatcher's timer resolution (of 1 sec) removed to make use of global default of 0.5 sec.
- Fix to twisted/udp non-default local endpoint binding features. Common socket ('host', port) notation is now supported.
- Fix to Twisted-based transport to make it closing UDP port / UNIX pipe on shutdown.
- Fix to Twisted-based dispatcher not to close transport on unregistration at dispatcher as transports can potentially be reused elsewhere.
- Fix to asyncore-based transport to work only with AsyncsockDispatcher's socket map and not to touch default asyncore's one. The latter have caused dispatcher/transport restarting issues.
- The delV3User() function improved to drop all rows from USM table that were cloned from the target one.
- Fix to exceptions handling at MsgAndPduDispatcher.sendPdu() to avoid sendPduHandle miss (followed by system crash) on cache expiration run.
- Break cyclic references at CommandResponder and NotificationReceiver apps through close() method.
- Fix to octet string typing at 3DES codec (used to throw an exception).
- Fix to SnmpAdminString, SnmpTagList, SnmpTagValue types to make them supporting UTF-8 initializers.
- Fix to v1/v2c message processing module which used to refer to a bogus stateReference in some cases what causes SNMP engine crashes.
- Fix to IPv6 transport to zero ZoneID, FlowID and ScopeID components sometimes coming along with incoming packet.
- Fix to SNMPv1 MP module to pass stateReference to registered app on unconfirmed notifications reception (to let NotificationReceiver Apps browsing request details).
  (transport information at the moment) at SNMP engine.
- Asyncsock sockets now configured with SO_REUSEADDR option to fix possible Windows error 10048.
- Gracefully handle malformed SnmpEngineID at USM coming from SNMPv3 header.
- Typos fixed in error-status constants at CommandResponder
- Missing import added to oneliner auth module.
- Cosmetic changes to v3arch example scripts.

Revision 4.2.4, released 2013-01-30
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- SNMPv3 high-level and native API examples reworked and extended to cover many use cases.
- The missing functionality of NOTIFICATION-TYPE objects being looked up at local Management Instrumentation and attached to TRAP/INFORM message
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- The missing functionality of passing Response PDU contents of INFORM request is now implemented at Notification Originator app. The return value of NotificationOriginator.sendNotification is now a composite object that includes errorStatus, errorIndex and varBinds.
- The missing functionality of passing lookupNames & lookupValues params to Notification Originator is now implemented. It may make sense for INFORMs.
- The missing functionality of passing contextName to oneliner version of NotificationOriginator.sendNotification is now implemented.
- Oneliner example apps now include cases where non-default SNMP ContextEngineId/ContextName/SecurityEngineId is used.
- AbstractMibInstrumController class added as a base class for all possible kinds of Management Instrumentation controllers.
- Report package version on debugging code initialization.
- MibInstrumController.getMibBuilder() added.
- I/O sockets buffer sizes made configurable, minimum default is now forced to be no less than 2**17 (to fit two huge datagrams).
- Catch possible exceptions on pyasn1 encoder invocation.
- VACM modules converted from a function into an object to let it keep state (caches) in the future.
- Unnecessary MibSource explicit initialization calls removed at MibBuilder.
- Example configuration for Net-SNMP's snmptrapd added.
- Cast additionalVarBinds into ObjectIdentifier type at NotificationOriginator.sendNotification()
- Standard SNMPv3 Apps hardened to catch protocol-related exceptions and report them as errorIndication's.
- Catch and mute possible failure of getsockname(), that seems to happen on Windows only so far.
- Memory leak fixed at oneliner cache of already configured targets.
- Fixes to at AsynNotificationOriginator.sendNotification() to make a) the notificationType param mandatory b) the varBinds param really optional
- Fixes to ContextEngineId/ContextName support at the oneliner API: now both items should be passed to request PDU through Cmd() request initiation method, the items of authData object should be used only for LCD configuration.
- Fix to MibVariable handling of the MIB, <empty-symbol> initializers.
- Fix to outgoing queue processing order at socket transport. Now it's a FIFO discipline rather than LIFO.
- Fix to NotificationOriginator's additionalVarBinds parameter - it is not mandatory anymore with the oneliner API. Also additionalVarBinds defaulted value changed from None to () meaning no var-binds.
- Attempt to convert Windows style EOL into UNIX ones in MIB source modules appeared to be unnecessary and even destructive to modules data in some cases. So the conversion code removed altogether.
- Fix to isAccessAllowed() error handling at NotificationOriginator. System
used to crash on access denied condition.
- Fix to NotificationOriginator to make it use system uptime and trap OID values from SNMP engine's instrumentation rather then from SNMP context.
- Fix a couple of bugs at MibTable* logic involved for table instances creation.
- Fix to Management Instrumentation code to handle cases of non-initialized or not-compliant-to-constraints Managed Objects Instances.
- Fix to Management Instrumentation code to make table row removal through SNMP working again. Wrong method (instumClone) was probed at terminal MIB nodes values instead of the right one (setValue).

Revision 4.2.3, released 2012-09-06

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- SECURITY FIX: USM subsystem did not verify securityLevel of a request to an authoritative SNMP engine against auth/priv protocols configured for the user in question. That allowed unauthenticated/unciphered access to pysnmp-based Agent even if USM user is configured to provide one.
- Oneliner [Asyn]CommandGenerator now supports optional keyword args lookupNames, lookupValues that enable response OID / value looked up at MIB and reported as a MibVariable container object carrying relevant MIB info.
- Oneliner [Asyn]CommandGenerator now supports symbolic MIB object names to be passed within a MibVariable container object which would do a deferred MIB lookup for name resolution. This is a new and preferred API which obsoletes the tuple-based one (it is still supported though).
- Oneliner CommandGenerator's class attributes lexicographicMode, maxRows and ignoreNonIncreasingOid moved to optional keyword args of nextGen() and bulkGen() methods.
- IPv6/UDP and Local Domain Socket transport interfaces added to the oneliner API.
- Mib Instrumentation subsystem re-worked to replace excessive MibName's smiCreate()/smiWrite()/smiDestroy() methods with MibScalarInstance's getValue()/setValue() method.
- MibTree.readTest[Get]Next() reworked to be called uniformly so user could tap on these methods at any level of the MIB tree.
- MibTableColumn.getNextNodeWithValue() unpublished API method obsoleted and removed for clarity.
- Hex dumps of binary parts of the protocol added to ease system operations analysis.
- SnmpEngineId autogeneration does not call DNS resolver but uses local hostname not to depend upon local IP availability and performance.
- Example apps reworked, additional SNMPv3 auth/priv protocols and transports added.
- Package version is now available as __init__.__version__ and it is in-sync with distutils.
- Package meta-information updated.
- The __init__.py's made non-empty (rumors are that they may be optimized
out by package managers).
- Multiple fixes to UNIX domain socket transport to make it fully operational again.
- Use sysUpTime value whenever it is included in Notification PDU, otherwise resort to SNMP engine uptime reading.
- SNMPv2c Message is now defined in rfc1901.py what matches standard definition.
- Types defined within SNMPv1/v2c data structures (rfc1157.py/rfc1905.py) moved to module scope to become accessible by wrapper routines (v1.py/v2c.py). This is used for setting strictly typed default values to corresponding SNMP data structures.
- The obsolete and unpublished MibInstrumController.readVarsFast() method removed for API clarity.
- MibBuilder now distinguishes case of MIB modules filenames even if underlying OS does not.
- LCD configuration caching is implemented at pysnmp.entity.rfc3413.config that improves performance of repetitive calls by 10% and might hugely improve NotificationOriginator's performance when working on a large number of targets.
- A caching maps implemented at rfc2576 subsystem to speed-up communityName to/from securityName resolution. The also makes transport tags processing better compliant to the standard.
- Community and Transport tags processing changed at the oneliner interface to make the whole mechanism more compliant with the standard. Most importantly, it is now possible to tag authentication and transport information separately.
- The NoSuchInstanceError exception class is no more inherits from NoSuchObjectError to make class hierarchy closer to SNMP specification which states that these errors are separate and independent.
- The Next & BulkCommandGenerator's split onto single-run and iterative implementations. The former just process a single interaction and complete while the latter run as many interactions as user callback function indicates to.
- The pysnmp.entity.rfc3413.mibvar module is now obsolete by pysnmp.entity.rfc3413.oneliner.mibvar featuring basically the same features but within a stateful, dedicated object.
- Auth & target configuration container classes moved to their separate modules at oneliner API.
- The notificationType parameter of AsynNotificationOriginator.sendNotification made defaulted to reflect its optional nature.
- Oneliner UsmUserData, UdpTransportTarget, Udp6TransportTarget instances are not hashable anymore as they are intended to act more like a data structure than object.
- Built-in debugger now supports negating debugging categories.
- An async/getgen.py example script added.
- Fix to MIB data reading routine to make it working with possible Windows end-of-line's.
- Fix to CommandGenerator's SNMPv3 engine autodiscovery algorithm
when retryCount is administratively set to 0.
- Fix to Notification Originator to make it communicating a single
  sendPduHandle to an application even when multiple INFORMs are triggered
  and processed by a single call by way of transport tagging feature.
- Fix to rfc2576:processIncomingMessage() to take SecurityModel into account
  when lookup up SecurityName by CommunityName. This allows mixed SNMPv1/v2c
  communication with the same target.
- Fix to internal MessageProcessing and SecurityModel timers so they become
  dependant on system timer resolution.
- Fix to v1.PDUAPI.setDefaults() method that used to set wrongly typed
  time-stamp component.
- Fix to IPv6 address handling to prevent system from crashing whilst
  running Python3.
- Fix to SNMPv2 exception objects translation into SNMPv1 PDU and NEXT
  OIDs calculation.
- Fix to MibTree class to properly report noSuchObject & noSuchInstance
  SNMP special values.
- Fix to libsmi2pysnmp tool to make it working again in Python < 2.7
- Fix to exception handling at decodeMessageVersion() caller to prevent
  ASN.1 parsing errors crashing the whole app.
- Fix to GenericTrap type processing at rfc2576:v1Tov2c() which used to
  crash the whole SNMP engine.
- Fix to [possibly uninizilaized] pyasn1 objects printouts at
  MibNameController.__indexMib()
- Fix to maxSizeResponseScopedPDU calculation at rfc3414/service.py.
- Dedicated 'withmib' example set is obsolete and removed.
- Another SNMP proxy example app added (1to3.py).
- Fix to MIB modules loading code to make it using __import__() properly.
  This also makes pysnmp working again with Python 3.3rc0.
- Typo fix to snmpInASNParseErrs MIB instance object.
- Typo fix to errind.EngineIdMismatch class and its instance.

Revision 4.2.2, released 2012-04-21
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- Oneliner CommandGenerator can now limit the number of SNMP table
  rows returned by nextCmd()/bulkCmd() methods.
- Oneliner CommunityData configuration object can now be initialized
  with community name only, security name will be chosen automatically.
- Oneliner LCD configuration routines reworked towards clarity. The
  side-effect of this change is that repetitive oneliner call with the same
  securityName and different configuration options will only honor
  the first settings. Previous implementation would override older settings.
- Transport dispatcher now provides its own time expressed in
  fractions of second. SNMP engine uses this notion of time for
  handling requests timeout to make packet flow time bound
  to async I/O core operations rather than to real time.
- The libsmi2pysnmp tool improved to handle incomplete SMI v1->v2
conversion performed by smidump. The remaining core SMIv1 modules excluded from the core MIB set.

- The pyasn1 constraint and enumeration objects put into ASN1-*
  MIB modules what appears to be more in-line with SMI. Existing
  MIB modules as well as libsmi2pysnmp tool corrected accordingly.
- SMIv1 MIB modules (including RFC1155 and RFC1213) were moved to
  pysnmp-mibs as pysnmp is SMIv2-based.
- The MibBuilder.importSymbols() now takes optional kwargs and
  push them into MIB modules globals(). This is to facilitate
  passing user information, such as DB connection handler, to MIB
  module namespace so it could be used by ManagedObjects implementations.
- When running on Python3, SMI will re-raise exceptions with the original
  traceback for easier diagnostics.
- Out of PYTHONPATH MIB paths now supported.
- Added pyasn1 decoder failures diagnostics in debug mode.
- Fix to non-MT-safe class attributes at SNMPv3 MP & SEC modules.
- Fix to ContextName handling in bytes form whilst running Python3. Data
  mismatch error would return otherwise.
- Fix to SNMPv3 MP peer engine ID discovery not to learn and use
  user-specified ContextEngineId.
- Fix to socket.error processing at Py3 on Windows.
- Fix to oneliner GETNEXT/GETBULK implementation to properly support
  ignoreNonIncreasingOIDS option.
- Fix to setEndOfMibError()/setNoSuchInstanceError() at v1 PDU not to
  loose errorIndex.
- Fix to api.v2c.getVarBindTable() to ignore possible non-rectangular GETBULK
  response tables.
- Fix to oneliner getnext/getbulk response table rectangulation procedure
  to gracefully handle an empty column condition.
- Fix to legacy MibBuilder.getMibPath() to prevent it from missing
  .egg-based components in path.
- Fix to oneliner configuration routine that used to implicitly
  tag SNMPv1/v2c auth and transport LCD rows what resulted in
  huge delays when processing incoming messages with large number
  of peers configured.
- Fix to UDP6 transport handling at rfc2576 security module.
- Fix to SnmpEngineID value autogeneration (used to fail on Mac).
- SNMPv2-SMI.ObjectType.__repr__() fixed to do a repr() on its components.
- All SNMPv2-SMI.MibNode-based objects, once exported to a mibBuilder, will
  carry an embedded label symbol.
- Exlicit repr() calls replaced with ‘%r’
- Fix to error processing at GETNEXT & GETBULK apps response handlers.
- Fix to libsmi2pysnmp to make it supporting long (256+) list of function
  params.
- Fix to libsmi2pysnmp to support inheritance of MIB types.

Revision 4.2.1, released 2011-11-07

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- Support string OIDs at one-liner API.
- Code quality of libsmi2pysnmp tool improved, MIBs re-built.
- SNMP-PROXY-MIB & SNMP-USER-BASED-SM-3DES-MIB added
- v1arch bulkgen.py example added
- Major overhaul for Python 2.4 -- 3.2 compatibility:
  + get rid of old-style types
  + drop string module usage
  + switch to rich comparation
  + drop explicit long integer type use
  + map()/filter() replaced with list comprehension
  + apply() replaced with var-args
  + dictionary operations made 2K/3K compatible
  + division operator made 2K/3K compatible
  + sorting function now operates on key
  + iterators returned by some funcs in py3k converted to lists
  + exception syntax made 2K/3K compatible
  + tuple function arguments resolved to scalars to become py3k compatible
  + BER octetstream is now of type bytes (Py3k) or still string (Py2k)

Revision 4.1.16d, released 2011-09-22
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- Fix to SNMPv1 Trap PDU agentAddress setter shortcut method.

Revision 4.1.16c, released 2011-08-14
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- Missing module import fixed in privacy subsystem

Revision 4.1.16b, released 2011-08-13
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- Oneliner CommandGenerator can now optionaly ignore non-increasing OIDs.
- Default CommandResponder now skips non-compliant (Counter64) values when responding to a v1 Manager.
- Fix to state information handling at CommandResponder app.
- Fix to Twisted reactor shutdown condition.
- Fix to distutils dependencies syntax.

Revision 4.1.16a, released 2011-03-17
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- Extended Security Options (3DESEDE, AES192, AES256) privacy protocols implemented.
- The error-indication codes moved from literals to objects for reliability and clarity
- Fix to v1.TrapPDUAPI.getVarBinds() to address PDU component at the right position.
- Fix to rfc1902.Bits initialization from named bits sequence.
- Fix to MIB builder by-extension module filtering code to cope with .pyw files.
- Internal caches structure improved.
- Sync versions of oneliner apps split off async implementation for clarity.
- Randomize initial in various numeric sequences.
- MsgAndPduDsp expectResponse parameters passing reworked.
- GetNext/GetBulk response processing logic moved to getNextVarBinds()
- Changes towards performance improvement:
  + all dict.has_key() & dict.get() invocations replaced with modern syntax (this breaks compatibility with Python 2.1 and older).
  + introduce the MibInstrumControlle.readVarsFast() method (which skips the “testing” phase of MIB value readin) for dealing with internal configuration (LCD).
  + default debug.logger is now just a zero value instead of an object what saves big on frequent calls
  + SNMPv2-SMI columnar indices <-> index values conversion code optimized.
  + pre-compute and re-use some of ASN.1 structures.
  + avoid setting PDU defaults to save on unnecessary initialization.
  + skip ASN.1 types verification where possible.
  + at oneliner Command Generator, avoid looking up pure OID arguments at MIB as it's pointless but takes time.
  + cache MIB columnar objects instance ID <-> symbolic index representation mapping

Revision 4.1.15a, released 2010-12-13
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- SNMP Proxy example added.
- End-of-MIB condition detection reworked what caused backward incompatibility at v1 arch GETNEXT API. Previous pysnmp versions used value = None in var-binds as returned by getVarBindTable() API method. This version uses rfc1905 exception values (v2c/v3) or pyasn1 Null (v1).
Built-in GETNEXT/GETBULK apps now do not require user to track end-of-mib conditions anymore -- this is now done automatically.
- CommandResponder API now supports async mode of operation.
- SNMP exception values now exported from rfc1905 module, and made pretty printable.
- Lexicographic walking mode is now supported at oneliner CommandGenerator.
- ContextEngineId&ContextName parameters passing implemented at v3 arch oneliner API.
- Multiple instances of the same transport domain now supported.
- Initial snmpEngineId value generation improved not to accidentally collide within an administrative domain.
- MibTableColumn instances now build value-to-column-instance map
to speedup by-value search.
- SNMPv2-CONF::AgentCapabilities macro implemented.
- The libsmi2pysnmp tool handles some more MACROs.
- Void access control module implemented to let apps disabling [default] VACM.
- Allow standard SNMP apps to choose access control method to use.
- Twisted-based CommandResponder example added.
- Fix/rework of Twisted GETNEXT/BULK CommandGenerator callback API to
  make it simpler and uniform with other CommandGenerators
- Fix to SNMPv3 security module to store peer SNMP engine timeline
  only if taken from an authenticated message. Prior to this fix
  SNMP engine was not been protected from spoofing.
- Fix to $SMIPATH initialization at build-pysnmp-mib.
- Fix to maxSizeResponseScopedPDU calculation.
- Fix to Next/Bulk CommandGenerators to catch a non-increasing OID
  error condition (what prevents looping).
- Fix toOpaque value tagging at rfc1155Opaque type.
- Fix to handle (fail gracefully) zero-length user password.
- Fix to SNMP error propagation at Twisted driver (SF tracker ID #3054505).
- Fix to Agent-role snmpEngineId discovery procedure that allows
  authenticated ReportPDU generation.
- Fix to SNMPv1 PDU handling at CommandResponder & NotificationReceiver
  apps.
- Fix to CommandResponder app to skip Counter64 SMI values when responding
  to SNMPv1 Manager.
- Fix to protocol translator code (rfc2576) to handle Counter64 type
  in v2c-to-v1 PDU translation.
- Fix to non-response var-binds translation in rfc2576.v2ToV1().
- Fix to wrong exceptions used in pysnmp/entity modules.
- Fix to noauth/nopriv security module so that it would not crash SNMP
  engine if called accidentally.
- Fix to CommandResponder not to return out-of-range errorIndex along
  with genErr
- Fix to GETBULK CommandResponder to do a by-column MIB walk, not by-raw.
- Fix to getVarBindTable() API function logic.
- Fix to example Manager scripts to use errorIndex when available.
- Fix to dummy encryptData()/decryptData() API
- Fix to oneliner GETBULK table collection code to make it stripping
  uneven rows off table tail.

Revision 4.1.14a, released 2010-07-15

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- Fix to maxSizeResponseScopedPDU calculation at USM security module: now
  more precise and robust against screwed values on input.
- Fix to MIB loading logic that used to load same-name modules at
  districts search paths on each loadModules() call.
- Fix to AsynsockDispatcher.runDispatcher() to make use of optional
non-default select() timeout value.
- AbstractTransportDispatcher now allows user application registering multiple timer callbacks each with dedicated call period.
- Asyncsock mainloop default idle period reduced to 0.5 sec for better timer resolution.
- Fix to SNMPv1->SNMPv2c error status handling at proxy module. This defect may have caused an infinite loop on a multiple var-bind SNMPv1 GetNext operation.
- Fix to contextName processing at config.addV1System -- typo rendered passed contextName not committed into LCD.
- Fix to unknown ContextName exception handling at CommandResponder App.
- config.addVacmUser() now accepts an optional contextName what makes it usable for configuring multiple contextName-bound bases of Managed Objects to SnmpEngine.
- MP pending states cache management re-worked so that SNMP engine will now handle an unlimited number of pending request/responses.
- Fix to SNMP discovery procedure: include ContentName in SNMP discovery messaging.
- Many fixes to AES crypto code that makes it actually working.
- Fix to SNMPv2-SMI createUndo operations.
- Fix to INFORM sending error handling at oneliner.
- Fix to mismatched response PDU handling at CommandGenerator application.
- Debug category 'app' (for Application) added to facilitate Standard SNMP Applications debugging.
- The retryCount semantic of CommandGenerator application changed to include sole retries and do not include initial request. Thus, retryCount=1 will now send up to two packets, not just one as it used to be.
- Debugging printout now escapes non-printable characters.

Revision 4.1.13a, released 2010-02-09
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- UDP over IPv6 transport implemented.
- Fix to MIB tree walking code that used to fail on table columns where indices have identical leading parts.
- SNMPv1/v2c snmpCommunityTransportTag-based incoming message filtering implemented (rfc2576).

Revision 4.1.12a, released 2009-12-03
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- API versioning retired (pysnmp.v4 -> pysnmp).
- MIB loading mechanics re-designed to allow ZIP import.
- MIB loader supports code objects (py[co])
- Installer now uses setuptools for package management whenever available.
- The libsmi2pysnmp tool improved to build constraints of more than 256 items (Python has a limit on the number of function params).
- Missing SNMPTrap PDU API implemented at proto.api.v2c, RFC2576 proxy
code reworked.
- Fix to sysUpTime OID at SNMPv2 TRAP PDU.

Revision 4.1.11a, released 2009-08-21

- Twisted integration implemented.
- Attempt to use hashlib whenever available.
- Fix to oneliner Manager code on < Python 2.4.
- Let NotificationReceiver and CommandResponder Apps browsing request details (transport information at the moment) at SNMP engine.
- Fix to config.addV1System() to allow multiple systems to co-exist in LCD.
- Fix to wrongly succeeding user-parameters-by-community-name searching code in rfc2576 processIncomingMsg() method.
- Do sanity checking on PYSNMP_MODULE_ID, Groups and Notifications in libsmi2pysnmp (SF bug #2122489).
- Fix to oneliner Notification Originator that sometimes used to send multiple requests at once.
- Oneliners LCD names generation code reworked to avoid accidental clashes.
- Fix and re-work of sysUpTime value management in LCD.
- Fix to pending inform request data caching in mpmod/rfc2576.py -- previous code led to cache data corruption on multiple outstanding requests.
- In SMI configuration wrapper functions, catch access to non-configured entries and raise an exception.
- Allow multiple callback timer functions in all transport dispatchers.
- Fix to libsmi2pysnmp code to preserve more underscored object names and to guess the right type between indistinguishable ObjectGroup & NotificationGroup
- Fix to MibScalarInstance value setting logic - previous code failed when modifying the same OID multiple times within a single SET operation.
- Minor usability improvements to tools/build-pysnmp-mib.
- Made MIB objects unexport feature operational.

Revision 4.1.10a, released 2008-05-25

- Internal MIB indexing method __indexMib() unmangled to facilitate setting up mutex there for sharing MIB stuff between threads.
- Fixed broken IpAddress value handling in SET operation.
- Broken MibBuilder.unloadModules() method now works.
- Use getLabel() SMI object method when building MIB tree (in builder.py) in addition to direct attribute access for clearer object protocol.
- The MIB building tools updated to match significantly improved smidump tool (libsmi version > 0.4.5).
- Made libsmi2pysnmp tool optionally building MIB text fields into pysnmp MIB code (enabled by default) and MibBuilder conditionally loading them up (disabled by default).
- SnmpEngine and MsgAndPduDispatcher constructors now optionally
take msgAndPduDspr and mibInstrumController class instances respectively to facilitate these objects sharing within a process.
- Unique integers, for various parts of the system, are now generated by a nextid.py module. This fixes possible issues with duplicate request IDs and handlers.
- Built-in MIBs re-generated to include text fields.

Revision 4.1.9a, released 2007-11-28

- UNSTABLE ALPHA RELEASE.
- At onliner CommandGenerator, close transport on destruction to prevent socket leak. Implicit async transports registration at default asyncore's socket map has been disabled to avoid side effects.
- Fix to rfc2576.v1ToV2c() PDU converter to perform NoSuchName error code translation.
- Fixes to Notification PDU conversion code at rfc2576 in part of snmpTrapOID handling.
- Fix to nonRepeaters object use as sequence slicer (must be int) at cmdrsp.CommandResponderApplication
- Make AsynsockDispatcher using its own socket map by default for threading safety. This will break asyncore apps that rely on pysnmp sharing the same socket map with them. A solution would be to either set asyncore map to pysnmp (AsynsockDispatcher.setSocketMap()) or pass pysnmp map (AsynsockDispatcher.getSocketMap()) to asyncore.
- Fix to response timeout roundup bug at CommandGenerator and NotificationOriginator code.
- Oneline configuration classes made hashable to prevent memory leaks when committing them into CommandGenerator/NotificationOriginator internal repository.
- Security information is now released properly in all MP modules. This might fix a significant memory leak.
- Typo fix to rfc3411 confirmed class PDU members.

Revision 4.1.8a, released 2007-08-14

- UNSTABLE ALPHA RELEASE.
- SMI/dispatcher timeout conversion multiplier is actually 100 (1/100 sec) rather than 1/1000. This fix affects timeouts specified through SMI.
- __repr__() implemented for UdpTransportTarget, CommunityData, UsmUserData in oneliner module.
- Automatically initialize table index values on table management operations (SF bug ID #1671989).
- Fix to carrier code: ignore BADFD socket error as it may happen upon FD closure on n-1 select() event.
- Fix to MibBuilder.setMibPath() to preserve previously loaded modules
intact. Otherwise loadModules() called after setMibPath() might fail with 'MIB file not found in search path' exception.
- Fix to oneliner classes that now invoke unconfiguration methods on destruction. This might have caused memory leaks.
- Automatically initialize SNMP-USER-BASED-SM-MIB::UsmUserSecurityName columnar object instance on creation, as stated in DESCRIPTION (SF tracker ID #1620392).
- Fix to USM timeframe arithmetics (SF bug #1649032).
- VACM shortcuts merged into universal add/delVacmUser() to let notifications and requests to co-exist for the same user.
- At oneliners, build LCD tables keys from a hashed mix of input parameters to make sure these automatic entries won't interfere or exceed constraints on keys values.
- Made use of notificationType parameter of the sendNotification method in NotificationOriginator applications. This parameter used to be ignored in the past. Note, that previously used (and ignored) syntax has been changed in an incompatible way.
- Allow plain Python values in setCmd() and sendNotification() methods in CommandGenerator and NotificationOriginator applications respectively.
- Multi-target oneliner API-based example script added.
- Ignore more socket errors in datagram-type async socket code.
- AES cipher now supported (rfc3826).
- Fix to messed up tagIDs of noSuchInstance and noSuchObject types.
- SET Command Responder fixed to obscure access to non-existing variables by returning notWritable error (SF bug #1764839).
- AsynsockDispatcher.setSocketMap() method added to facilitate pysnmp transport integration into third-party asyncore-based applications.
- Fix to errorIndex generation at CommandResponder application, the value should be a one-based.

Revision 4.1.7a, released 2007-02-19

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- UNSTABLE ALPHA RELEASE.
- Low-level debugging facility implemented.
- Support UdpTransportTarget timeout and retries parameters in oneliner API.
- Fix to snmpTrapOID construction at ...proxy.rfc2576.v1ToV2() function.
- Fix to MibViewController.getNodeName() to take MIB module name into account (SF bug #1505847).
- Do explicit check for Counter32, Unsigned32, TimeTicks, Counter64 value types in MibTableRow index conversion and in TextualConvention.prettyPrint() methods (SF bug #1506341). Handle Bits in indices as RFC2578 suggests.
- Apply read-create column status to libsmi2pysnmp-generated code whenever MIB text specifies that (SF bug #1508955).
- Honor and apply DISPLAY-HINT specification when building TextualConvention class at libsmi2pysnmp.
- Managed Objects Instances files (smi/mibs/instances/) are now double-underscore prefixed to make them imported explicitly by these prefixed names. They used to be imported as a side-effect of Managed Objects files import what is way too hackerish.
- The libsmi2pysnmp now supports future libsmi bugfix that would generate "ranges" subtree along with the legacy and ambiguous "range" one.
- SMI support for fixed-length string indices implemented (SF bug #1584799, #1653908).
- Managed Object Instances may now have smiRead, smiWrite, smiCreate methods to support specific value mangling. These methods, if present, would be invoked from SNMP [Agent] core instead of conventional clone() method. The reason is to separate trivial value duplication from specific Instance value mangling that may have Agent-specific side effects (such as RowStatus).
- MIB table row destruction now works (SF bug #1555010).
- LCD unconfiguration functions for oneliners implemented (SF bug #1635270).
- unloadModules() and unexportSymbols() implemented at MibBuilder
- Notification type PDU proxy code fixed to produce symmetrical conversion.
- Various SNMP engine-internal caches expiration implemented.
- SMI-level access control now takes effect only if AC object is passed to MIB instrumentation API.
- LCD management code now uses generic MIB instrumentation features.
- Fix to oneliner manager code to have individual UdpSocketTransport instance per each SnmpEngine. Multithreaded apps might fail otherwise. (SF bug ID #1586420).
- Exclude the PYSNMP_MODULE_ID symbol from MIB view index, as it may get resolved into OID label instead of actual MIB object name.
- Memory leak fixed in indices.OidOrderedDict implementation.
- Fix to VACM shortcuts to let notifications and requests to co-exist for the same user otherwise.
- Fix to ...oneliner.cmdgen.UsmUserData to support non-default ciphers.
- USM now uses local notion of snmpEngineBoots/Time when authoritative and cached estimate otherwise. Also, a security fix applied to to USM time-window verification (SF bug #1649032).
- Fix to notification objects resolution code at NotificationOriginator.sendNotification()
- Do not raise securityLevel for USM error reports that lacks user information, as these reports could never be ciphered (SF bug #1624720).
- Non-default BULK PDU params now actually applied.
- SnmpEngineID default value generation algorithmic function changed to allow multiple SNMP engines running on the same host.
- Documentation updated.
- A handful of minor fixes applied (SourceForge tracker IDs #1537592, #1537600, #1537659, #1548208, #1560939, #1563715, #1575697, #1599220, #1615077, #1615365, #1616579).

Revision 4.1.6a, released 2006-05-25
- UNSTABLE ALPHA RELEASE.
  - pysnmpUsmSecretAuthKey and pysnmpUsmSecretPrivKey length increased up to 256 octets. There seems no limit on this in RFC, though.
  - A workaround for probably broken Agents: SNMPv3 Manager code defaults ContextEngineId to SecurityEngineId whenever ContextEngineId is not reported by authoritative SNMP engine on discovery.
  - Use empty PDU in engine-discovery report at mpmod/rfc3412.py.
  - MibBuilder.loadModules() now fails on missing MIB files.
  - MibBuilder.exportSymbols() now accepts unnamed objects (likely Managed Objects Instances)
  - SNMPv2-SMI.MibScalarInstance objects now support create*/destroy*
    Management Instrumentation methods to pass Columnar Object creation and removal events. MibTableColumn class invoke these methods accordingly.
  - Fix to AsynNotificationOriginator.asyncSendNotification() callback formal parameters
  - Initial VACM configuration implemented according to rfc3415 Appendix 1
  - tools/buildmibs.sh split-up and re-implemented as tools/build-pysnmp-mib and pysnmp-mibs/tools/rebuild-pysnmp-mibs for better usability. These and libsmi2pysnmp scripts made installable.
  - Types/Notifications/Groups exportSymbols() call chunking implemented in tools/libsmi2pysnmp
  - Initial values specified to pyasn1 types to comply with latest pyasn1 API.
  - Documentation improved
  - Minor fixes towards Python 1.5 compatibility

Revision 4.1.5a, released 2005-11-04

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- UNSTABLE ALPHA RELEASE.
- Multi-lingual SNMP Trap/Inform Applications completed; examples added
- SMI model re-designed to make a clear separation between
  Managed Objects and their specification (AKA Agent and Manager side)
- SNMP SET Application support completed
- Minor, though backward incompatible, changes to one-liner API
- Many bugfixes

Revision 4.1.4a, released 2005-08-16

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- UNSTABLE ALPHA RELEASE.
- SHA-based authentication fixed and privacy implemented
- ...oneliner.cmdgen.UsmUserData constructor now takes
  authProtocol and privProtocol parameters in a backward incompatible manner.

Revision 4.1.3a, released 2005-07-28
- UNSTABLE ALPHA RELEASE.
- rfc3413 applications API changes (related to callback function behaviour).
- TransportDispatcher now provides "jobs" interface to clients for better control of dispatcher's execution.
- Many minor fixes.

Revision 4.1.2a, released 2005-07-12

- UNSTABLE ALPHA RELEASE.
- Top-level application classes renamed into longer, self describing names for clarity.
- CommandResponder & NotificationOriginator applications now uses stand-alone SnmpContext for application registration.
- Many minor fixes (inspired by testing on WinXP)

Revision 4.1.1a, released 2005-06-29

- UNSTABLE ALPHA RELEASE.
- SNMPv3 code first published
- SNMP engine and applications implemented on library level
- Major re-design towards SNMPv3-style API.

Revision 4.0.2a, released 2005-03-01

- Adopted to slightly changed asyncore API (as shipped with python 2.4)

Revision 4.0.1a, released 2004-11-18

- Minor bug/typo fixes, mostly in example/ scripts.

Revision 4.0.0a, released 2004-11-15

- UNSTABLE EARLY ALPHA RELEASE.
- Major re-design and re-implementation.
- Rudimental API versioning implemented to let incompatible package branches to co-exist within the same Python installation.
- SMI framework designed and implemented. This framework provides 1) various access to MIB data 2) a way to implement custom MIB instrumentation objects. There's also a tool for building SMI classes from libsmi(3) output (smidump -f python).
- ASN.1 subtyping machinery implemented. Now dynamic ASN.1 instances subtyping and querying becomes available. Previously, this has been done through Python classes inheritance what proved to be a wrong concept.
- ASN.1 codecs framework re-designed and re-implemented aimed at a more consistent design and better performance. Highlights include abstract codec interface and serialized data caching (at encoder).
- Asn1Item constraints machinery re-implemented based on Mike C. Fletcher's design and code. Now various constrains are implemented as stand-alone objects serving interested Asn1Object derivatives through some abstract protocol (that's probably the Decorator design pattern).
- ASN.1 tagging facility re-implemented along the client-server design pattern. Besides this seems to be a more appropriate design, it allows an easier way for dynamic subtyping.

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Further development

Although PySNMP is already a mature software and it is being used at many places, the ultimate goal of the project is to implement most of the useful features that SNMP standards can offer. What follows is a list of most prominent missing features that PySNMP developers are planning to put their hands on in the future.

PySNMP library

#. Built-in MIB parser. PySNMP uses a data model of its own to work with information contained in MIB files. To convert ASN.1-based MIB texts into Python modules, an off-line, third-party tool is employed. As it turns out, this approach has two major drawbacks: one is that PySNMP users may need to pre-process MIB texts to use them with their PySNMP-based applications. Another is that LibSMI's Python driver seems to miss some information carried by MIBs. Thus the solution would be to write another MIB parser and code generator which would produce PySNMP compliant Python code right from MIB text files all by itself.

**Done:** see `PySMI project <http://snmplabs.com/pysmi/>`_ in conjunction with the latest PySNMP codebase.

#. Reverse MIB index. The variable-bindings received by the system whilst in Manager role could be post-processed using the information kept in MIB files to include human-friendly OIDs names, tables indices and values representation. However, there is currently no provisioning in the PySNMP system for locating and loading up MIB files containing additional information on arbitrary OIDs. So the idea is to maintain an OID-to-MIB index to let PySNMP load relevant MIB automatically on demand.

#. Stream sockets support. Currently, PySNMP transport subsystem only supports datagram-type network sockets. That covers UDP-over-IPv4 and UDP-over-IPv6. However, SNMP engine can potentially run over stream-oriented protocols what would let it support TCP-over-IPv4, TCP-over-IPv6 and SSL/TSL transports. Neither of these is currently implemented with PySNMP.

#. AgentX implementation. We anticipate many uses of this. For instance, having AgentX protocol support in pure-Python would let us write AgentX modules in pure-Python and attach them to high-performance Net-SNMP Agent. Or we could build and maintain a fully-featured, stand-alone PySNMP-based Agent so that users would write their own AgentX extensions what would comprise a complete SNMP Agent solution at lesser effort.

#. A DBMS-based SMI. Currently implemented SMI takes shape of live Python
objects that let user hook up his own handler on any existing Managed Object Instance. That's flexible and working approach in many cases, however sometimes, for instance when Management Instrumentation is inherently DBMS-based, it may be more efficient to move the entire SMI/MIB subsystem into a database. PySNMP engine would talk to it through its simple and well defined SMI API.

Stand-alone PySNMP-based tools
+++++++++++++++++++++++++++++++++++++++++++

#. SNMP Proxy Forwarder. That would be a stand-alone, application-level proxy service supporting all SNMP versions, multiple network transports, Command and Notification SNMP message types. Its anticipated features include extensive configuration facilities, fine-grained access control and logging.

**Done:** see `SNMP Proxy Forwarder <http://snmplabs.com/snmpfwd/>`_.

#. SNMP Trap Receiver. We see this application as a simple yet flexible SNMP TRAP collector. It would listen on network sockets of different types receiving SNMP TRAP/INFORM notifications over any SNMP version and putting all the details into a database and possibly triggering external events.

#. Database backend for SNMP Simulator. We have already built a tool for simulating SNMP Agents based on a snapshot of their Management Instrumentation state. Current implementation uses a plain-text file for keeping and possibly managing the snapshot. Many users of the Simulator software requested a value variation feature to be supported so that simulated Agents would look live, not static. We consider this variation and also dependencies features would be best implemented as a relational database application. So we are planning to put some more efforts into the Simulator project as time permits.

**Done:** since `snmpsim-0.2.4 <http://snmplabs.com/snmpsim/>`_.

If you need some particular feature - please, `open a feature request <https://github.com/etingof/pysnmp/issues/new>`_. Once we see a greater demand in particular area, we would re-arrange our development resources to meet it sooner.

You could greater speed up the development of particular feature by sponsoring it. Please get back to us to discuss details.

Contributions to the PySNMP source code is greatly appreciated as well. We require contributed code to run with Python 2.4 through the latest Python version (which is 3.7 at the time of this writing). Contributed code will be redistributed under the terms of the same
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**1.2294 python-oauthlib 2.0.6-1**

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Upstream-Name: heimdal
Upstream-Contact: heimdal@h5l.org
Source: https://github.com/heimdal/heimdal
Files-Excluded: doc/doxyout
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lib/wind/rfc3491.txt
lib/wind/rfc4013.txt
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AES in libhcrypto

rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

D3DES (V5.09) -

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

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

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

Windows support

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.2297 x-crypto 0.0.0-20210220033148-5ea612d1eb83

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1.2298 e2mmmap 0.1.0
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go-runhcs is a fork of go-runc

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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* /opt/cola/permits/1110639221_1606842346.93/0/fis-components-core-util-is-1-0-2-0-gb94b22f-tar-gz/fis-
components-core-util-is-5917000/lib/util.js

1.2306 kubernetes-client 0.0.0-
20191109102209-3c0d1af94be5
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1.2311 projectcalico-go-json 0.0.0-20161128004156-6219dc7339ba
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1.2312 gophercloud 0.15.0
1.2312.1 Available under license:

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
gophercloud.ErrResult
}
// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    } return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }

err := r.ExtractInto(&s)
return s.Resource, err
}

Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.
### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
----------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
```
```shell
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

#### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last
Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and
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### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

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

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

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

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal

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

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.
Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import {
    "fmt"
    "net/http"
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

// ListResult provides a single page of RESOURCE results.
const ListResult =`
{
}
`

// GetResult provides a Get result.
const GetResult =`
{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest =`
{
}
`

// UpdateRequest provides the input to as Update request.
const UpdateRequest =`
{
}
`

// UpdateResult provides an update result.
const UpdateResult =`
{

```
// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "Content-Type", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, CreateResult)
    })
}
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, CreateRequest)

w.WriteHeader(http.StatusCreated)
fmt.Fprintf(w, GetResult)
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "DELETE")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})
}

package testing
import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
th    "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TearDownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
    count++

    actual, err := resources.ExtractResources(page)
    th.AssertNoErr(t, err)

    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

    return true, nil
})
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    resp, err := client.Get(getURL(client, id), &r.Body, nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}
// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}
func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.
And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

**Step 2: Create an Issue**

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

**Reporting a Bug**

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* [https://github.com/gophercloud/gophercloud/issues/108](https://github.com/gophercloud/gophercloud/issues/108)
* [https://github.com/gophercloud/gophercloud/issues/212](https://github.com/gophercloud/gophercloud/issues/212)
* [https://github.com/gophercloud/gophercloud/issues/424](https://github.com/gophercloud/gophercloud/issues/424)
* [https://github.com/gophercloud/gophercloud/issues/588](https://github.com/gophercloud/gophercloud/issues/588)
* [https://github.com/gophercloud/gophercloud/issues/629](https://github.com/gophercloud/gophercloud/issues/629)
* [https://github.com/gophercloud/gophercloud/issues/647](https://github.com/gophercloud/gophercloud/issues/647)

**Feature Request**

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core
The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project.
and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* [https://github.com/gophercloud/gophercloud/issues/539](https://github.com/gophercloud/gophercloud/issues/539)
* [https://github.com/gophercloud/gophercloud/issues/555](https://github.com/gophercloud/gophercloud/issues/555)
* [https://github.com/gophercloud/gophercloud/issues/571](https://github.com/gophercloud/gophercloud/issues/571)
* [https://github.com/gophercloud/gophercloud/issues/583](https://github.com/gophercloud/gophercloud/issues/583)
* [https://github.com/gophercloud/gophercloud/issues/605](https://github.com/gophercloud/gophercloud/issues/605)

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* [https://github.com/gophercloud/gophercloud/issues/723](https://github.com/gophercloud/gophercloud/issues/723)

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example:
In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
    ID             string `json:"id"`
    Name           string `json:"name"`
    AdminStateUp   bool   `json:"admin_state_up"`
    Status         string `json:"status"`
    Subnets        []string `json:"subnets"`
    TenantID       string `json:"tenant_id"`
    Shared         bool   `json:"shared"`
}
```

to look like

```go
type Network struct {
    ID             string `json:"id"`
    Name           string `json:"name"`
    AdminStateUp   bool   `json:"admin_state_up"`
    Status         string `json:"status"`
    Subnets        []string `json:"subnets"`
    TenantID       string `json:"tenant_id"`
    Shared         bool   `json:"shared"`
    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

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

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance
Testing.
Step 1: Read Our Guides
========================

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.2313 heimdal 7.5.0+dfsg-1
1.2313.1 Available under license:

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GSS-API mechglue layer.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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DES core in libhcrypto

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D3DES (V5.09) -

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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lib/hcrypto/test_dh.c

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1.2314 gophercloud v0.1.0
1.2314.1 Available under license:
package RESOURCE

import (  
    "github.com/gophercloud/gophercloud"  
    "github.com/gophercloud/gophercloud/pagination"
 )

// RESOURCE represents...  
type Resource struct {
}

type commonResult struct {
  gophercloud.Result
}
// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.

type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.

type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
determine if the request succeeded or failed.

type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.

type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.

type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
}
Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project’s service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](./github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](./github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.
We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a very rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed.
Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.
While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This
might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------
If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------
Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `
{
}
`

// GetResult provides a Get result.
const GetResult = `
`
// CreateRequest provides the input to a Create request.
const CreateRequest =`
{
}
`;

// UpdateRequest provides the input to as Update request.
const UpdateRequest =`
{
}
`;

// UpdateResult provides an update result.
const UpdateResult =`
{
}
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{};

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{};

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{};

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource};

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusNoContent)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
}
// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
b, err := opts.ToResourceUpdateMap()
if err != nil {
    r.Err = err
    return
}
_, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
    OkCodes: []int{200},
})
return

package testing

import {
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
}
actual, err := resources.ExtractResources(allPages)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)
    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)
    createOpts := resources.CreateOpts{
        Name: "resource two",
    }
    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)
    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)
    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }
    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.
And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

```plaintext
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

```

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* [https://github.com/gophercloud/gophercloud/issues/108](https://github.com/gophercloud/gophercloud/issues/108)
* [https://github.com/gophercloud/gophercloud/issues/212](https://github.com/gophercloud/gophercloud/issues/212)
* [https://github.com/gophercloud/gophercloud/issues/424](https://github.com/gophercloud/gophercloud/issues/424)
* [https://github.com/gophercloud/gophercloud/issues/588](https://github.com/gophercloud/gophercloud/issues/588)
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* [https://github.com/gophercloud/gophercloud/issues/647](https://github.com/gophercloud/gophercloud/issues/647)
Feature Request  
-------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:
* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:
* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.
Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715  
  * https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539  
  * https://github.com/gophercloud/gophercloud/issues/555  
  * https://github.com/gophercloud/gophercloud/issues/571  
  * https://github.com/gophercloud/gophercloud/issues/583  
  * https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:
* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

**Step 1: Read Our Guides**

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](./github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

**Step 3: Code Hunting**

---

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621).

In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
    ID     string `json:"id"`
    Name   string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared bool `json:"shared"`
}
```

to look like

```go
type Network struct {
    ID     string `json:"id"`
    Name   string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared bool `json:"shared"`
    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```
```go
type Network struct {
ID   string `json:"id"`
Name string `json:"name"`
AdminStateUp bool `json:"admin_state_up"`
Status string `json:"status"`
Subnets []string `json:"subnets"`
TenantID string `json:"tenant_id"`
Shared bool `json:"shared"`

AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_
fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

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

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

1.2315 argcomplete 1.12.3

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# Copyright 2012-2019, Andrey Kislyuk and argcomplete contributors.
# Licensed under the Apache License. See https://github.com/kislyuk/argcomplete for more info.

# Copy of __expand_tilde_by_ref from bash-completion
__python_argcomplete_expand_tilde_by_ref () {
    if [ "${!1:0:1}" = "~" ]; then
        if [ "${!1}" != "${!1//\/*}" ]; then
            eval $1="${!1//\/*}"/'${!1#*/}';
        else
            eval $1="${!1}";
        fi
    fi
}
#!/bin/bash

# Run something, muting output or redirecting it to the debug stream
# depending on the value of _ARC_DEBUG.
# If ARGCOMPLETE_USE_TEMPFILES is set, use tempfiles for IPC.
python_argcomplete_run() {
    if [[ -z "${ARGCOMPLETE_USE_TEMPFILES-}" ]]; then
        python_argcomplete_run_inner "$@
    return
    fi
    local tmpfile="$(mktemp)"
    _ARGCOMPLETE_STDOUT_FILENAME="$tmpfile" python_argcomplete_run_inner "$@
    local code=$?
    cat "$tmpfile"
    rm "$tmpfile"
    return $code
}

python_argcomplete_run_inner() {
    if [[ -z "${_ARC_DEBUG-}" ]]; then
        "$@" 8>&1 9>&2 1>/dev/null 2>&1
    else
        "$@" 8>&1 9>&2 1>&9 2>&1
    fi
}

# Scan the beginning of an executable file ($1) for a regexp ($2). By default,
# scan for the magic string indicating that the executable supports the
# argcomplete completion protocol. By default, scan the first kilobyte;
# if $3 is set to -n, scan until the first line break up to a kilobyte.
python_argcomplete_scan_head() {
    read -s -r ${3:--N} 1024 < "$1"
    [[ "$REPLY" =~ ${2:-PYTHON_ARGCOMPLETE_OK} ]]
}

python_argcomplete_scan_head_noerr() {
    python_argcomplete_scan_head "$@" 2>/dev/null
}

python_argcomplete_global() {
    local executable=$1
    __python_argcomplete_expand_tilde_by_ref executable
    local ARGCOMPLETE=0
    if [[ "$executable" == python* ]] || [[ "$executable" == pypy* ]]; then
        if [[ "${COMP_WORDS[1]}" == -m ]]; then


if __python_argcomplete_run "$executable" -m argcomplete._check_module "${COMP_WORDS[2]}"; then
    ARGCOMPLETE=3
else
    return
fi
elif [[ -f "${COMP_WORDS[1]}" ]] && __python_argcomplete_scan_head_noerr "${COMP_WORDS[1]}"; then
    local ARGCOMPLETE=2
else
    return
fi
elif type -P "$executable" >/dev/null 2>&1; then
    local SCRIPT_NAME=$(type -P "$executable")
    if (type -t pyenv && [[ "$SCRIPT_NAME" = $(pyenv root)/shims/* ]]) >/dev/null 2>&1; then
        local SCRIPT_NAME=$(pyenv which "$executable")
    fi
    if __python_argcomplete_scan_head_noerr "SCRIPT_NAME"; then
        local ARGCOMPLETE=1
    elif __python_argcomplete_scan_head_noerr "SCRIPT_NAME" "^#!(.*)$" -n & & [[ "$BASH_REMATCH[1]" =~ ^.*(python|pypy)[0-9.]*$ ]]; then
        local interpreter="$BASH_REMATCH"
        if (__python_argcomplete_scan_head_noerr "SCRIPT_NAME" "(PBR Generated)|(EASY-INSTALL-(SCRIPT|ENTRY-SCRIPT|DEV-SCRIPT))" 
            & & "SINTERPRETER" "$interpreter argcomplete-check-easy-install-script" "SCRIPT_NAME") 
        >/dev/null 2>&1; then
            local ARGCOMPLETE=1
        elif __python_argcomplete_run "$SINTERPRETER" -m argcomplete._check_console_script "SCRIPT_NAME"; then
            local ARGCOMPLETE=1
        fi
    fi
fi
if [[硌ARGCOMPLETE != 0 ]]; then
    local IFS=$(echo -e 'v')
    COMPREPLY=( $(__python_argcomplete_run "$executable" "{COMP_WORDS[@]:1:ARGCOMPLETE-1}"
        COMP_LINE="SCOMP_LINE" 
        COMP_POINT="SCOMP_POINT" 
        COMP_TYPE="SCOMP_TYPE"
    _ARGCOMPLETE_COMP_WORDBREAKS="SCOMP_WORDBREAKS"
    _ARGCOMPLETE_SUPPRESS_SPACE=1 
    __python_argcomplete_run "$executable" "{COMP_WORDS[@]:1:ARGCOMPLETE-1}"
) )
    if [[硌$! != 0 ]]; then
        unset COMPREPLY
    elif [[ "COMPREPLY-" =~ [=/:]$ ]]; then
        compopt -o nospace
    fi
fi
else
    type -t _completion_loader | grep -q 'function' && _completion_loader "$@
fi
}
complete -o default -o bashdefault -D -F _python_argcomplete_global

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* /opt/cola/permits/1158616940_1619802213.38/0/kislyuk-argcomplete-v1-12-3-0-gce54b6d-tar-gz/kislyuk-argcomplete-5c73750/argcomplete/completers.py
* /opt/cola/permits/1158616940_1619802213.38/0/kislyuk-argcomplete-v1-12-3-0-gce54b6d-tar-gz/kislyuk-argcomplete-5c73750/argcomplete/my_argparse.py
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1.2316 is-extglob 2.1.1

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That's all there is to it!

1.2318 go-runtime 1.15.6
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Alexander Rakoczy <alex@golang.org>
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Balaram Makam <bmakam.qdt@qualcommdatacenter.com>
Balazs Lecz <leczb.google.com>
Baokun Lee <nototon@gmail.com>
Barnaby Keene <accounts@southcla.ws>
Bartosz Grzybowski <melkorm@gmail.com>
Bartosz Oler <brtsz@gmail.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Eitzen <elitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Haines <bhainesva@gmail.com>
Ben Hoyt <benhoyt@gmail.com>
Ben Laurie <ben@links.org> <ben@google.com>
Ben Lubar <ben.lubar@gmail.com>
Ben Lynn <benlynn@gmail.com>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Carlier <devnexen@gmail.com>
David Chase <drchase@google.com>
David Covert <davidhcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@google.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Finkel <david.finkel@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Heuschmann <heuschmann.d@gmail.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Jones <dxjones@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@google.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Timm <dtimm@pivotal.io>
David Titarenco <david.titarenco@gmail.com>
David Tolpin <david.tolpin@gmail.com>
David Url <david@urld.io>
David Volquartz Lebech <david@lebech.info>
David Wimmer <davidlwimmer@gmail.com>
Davies Liu <davies.liu@gmail.com>
Davor Kapsa <davor.kapka@gmail.com>
Dean Prichard <dean.prichard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Isaev <idenx@yandex.com>
Denis Nagorny <denis.nagorny@intel.com>
Dennis Kuhnert <mail.kuhnert@gmail.com>
Denys Honsiorovskyi <honsiorovskyi@gmail.com>
Denys Smirnov <denis.smirnov.91@gmail.com>
Derek Buitenhuys <derek.buitenhuys@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgstyle.net>
Derek Parker <parkerderek86@gmail.com>
Geon Kim <geon0250@gmail.com>
Georg Reinke <guelfey@gmail.com>
George Gkirtsou <ggirtsou@gmail.com>
George Hartzell <hartzell@alerce.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gergely Brautigam <karloso777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
Gert Cuykens <gert.cuykens@gmail.com>
Getulio Sanchez <valentin2507@gmail.com>
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>
Gianguido Sora` <g.sora4@gmail.com>
Gideonn Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
GitHub User @andig (184815) <cpuiddle@gmx.de>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.uf8@gmail.com>
GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <adita8@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cch123 (384546) <buua.cch@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @DQNEO (188741) <dqneo0@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @frennkie (6499251) <mail@rhab.de>
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jinmiaoluo (39730824) <jinmiaoluo@icloud.com>
GitHub User @jopbrown (6345470) <msshane2008@gmail.com>
GitHub User @kazyshr (30496953) <kazyshr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micncim (21333876) <micncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @OlgaVPetrova (44112727) <OVPpetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Liggitt <liggitt@google.com>
Jordan Rhee <jordanrh@microsoft.com>
Jordi Martin <jordimartin@gmail.com>
Jorge Araya <jorgejavieran@yahoo.com.mx>
Jorge L. Fatta <jorge.fatta@auth0.com>
Jos Visser <josv@google.com>
Josa Gesell <josa@gesell.me>
Jose Luis Vzquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrh@joshh.co.uk>
Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <cjoshuachase@gmail.com>
Joshua M. Clulow <josh.clulow@joyent.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@google.com>
JT Olds <jtolds@xnet5.com>
JT Olio <hello@jtolio.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebpereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmovj@google.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julian Tibble <julian.tibble@gmail.com>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kauffmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julio Montes <julio.montes@intel.com>
Jun Zhang <jim.zoumo@gmail.com>
Junda Liu <junda@celer.network>
Jungho Ahn <jahn@google.com>
Mark Bucciarelli <mbucc@gmail.com>
Mark Glines <mark@glines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@gmail.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kunglu <marko.kunglu@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrnic <mudrnic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoeffling <martin.hoeffling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <pany.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulys <mgulyas86@gmail.com>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevds@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammed Ulyuyol <uluyol0@gmail.com>
Muir Manders <muir@mnd.rs>
Mura Li <mura_li@castech.com.tw>
Mykhailo Lesyk <mikhail@lesyk.org>
Nan Deng <smonnand@gmail.com>
Nao Yonashiro <owan.orisano@gmail.com>
Naoki Kanatani <k12naoki@gmail.com>
Nate Wilkinson <nathanwilk7@gmail.com>
Nathan Cantelmo <n.cantelmo@gmail.com>
Nathan Caza <mastercactapus@gmail.com>
Nathan Dias <nathan.dias@orijtech.com>
Nathan Humphreys <nhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate.finch@gmail.com>
Nathan VanBenschoten <nvanbenschoten@gmail.com>
Nathan Youngman <git@nathany.com>
Nathan(yinian) Hu <nathanhu@gmail.com>
Nathaniel Cook <nvcook42@gmail.com>
Naveen Kumar Sangi <naveenkumarsangi@protonmail.com>
Neelesh Chandola <neelesh.e98@gmail.com>
Neil Lyons <njlyons@googlegmail.com>
Neuman Vong <neuman.vong@gmail.com>
Neven Sajko <nsajko@gmail.com>
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>
Niall Sheridan <nsheridan@gmail.com>
Niec Day <nic.day@me.com>
Nicholas Katsaros <nick@nickkatsaros.com>
Nicholas Maniscalco <nicholas@maniscalco.com>
Nicholas Ng <nickng@nickng.io>
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Nick Anthony <Liberatys@outlook.com>
Nick Cooper <nmvc@gmail.com>
Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com>
Nick Harper <nharper@gmail.com>
Nick Kubala <nkubala@gmail.com>
Nick Leli <nicholasleli@gmail.com>
Nick Miyake <nmiyake@users.noreply.github.com>
Nick Patavalis <nick.patavalis@gmail.com>
Nick Petroni <npetroni@cs.umd.edu>
Nick Robinson <nrobinson13@gmail.com>
Pallat Anchaleechamaikorn <yod.pallat@gmail.com>
Panos Georgiadis <pgeorgiadis@suse.de>
Pantelis Sampaziotis <psampaz@gmail.com>
Paolo Giarrusso <p.giarrusso@gmail.com>
Paolo Martini <mrtnpaolo@gmail.com>
Parker Moore <parkermoore@gmail.com>
Parminder Singh <parmsingh101@gmail.com>
Pascal Dierich <pascal@pascaldierich.com>
Pascal S. de Kloé <pascal@quies.net>
Pat Moroney <pat@pat.email>
Patrick Barker <barkerp@vmware.com>
Patrick Crosby <patrick@stathat.com>
Patrick Gavlin <pgavlin@gmail.com>
Patrick Higgins <patrick.allen.higgins@gmail.com>
Patrick Lee <pattyshack101@gmail.com>
Patrick Mizard <patrick@mezard.eu>
Patrick Mylund Nielsen <patrick@patrickmn.com>
Patrick Pelletier <pp.pelletier@gmail.com>
Patrick Riley <pfr@google.com>
Patrick Smith <pat42smith@gmail.com>
Patrik Lundin <patrik@sigterm.se>
Paul A Querna <paul.querna@gmail.com>
Paul Borman <borman@gmail.com>
Paul Boyd <boyd.paul2@gmail.com>
Paul Chang <paulchang@gmail.com>
Paul Hammond <paul@paulhammond.org>
Paul Hankin <paulhankin@gmail.com>
Paul Jolly <paul@myitcv.org.uk>
Paul Lalonde <paul.a.lalonde@gmail.com>
Paul M Furley <paul@paulfurley.com>
Paul Marks <pmarks@gmail.com>
Paul Meyer <paul.meyer@microsoft.com>
Paul Nasrat <pnasrat@gmail.com>
Paul PISCUC <paul.piscuc@gmail.com>
Paul Querna <pquerna@apache.org>
Paul Rosania <paul.roswana@gmail.com>
Paul Ruest <pruest@gmail.com>
Paul Sbarra <Sbarra.Paul@gmail.com>
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
Paul Tyng <paul@paultyng.net>
Paul van Brouwershaven <paul@vanbrouwershaven.com>
Paul Wankadia <junyer@gmail.com>
Paulo Casaretto <pcasaretto@gmail.com>
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>
Paulo Gomes <paulo.gomes.uk@gmail.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ymkins@gmail.com>
Richard Eric Gavaletz <gavaletz@gmail.com>
Richard Gibson <richard.gibson@gmail.com>
Richard Miller <miller.research@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rlh@golang.org>
Rick Sayre <whorfin@gmail.com>
Rijnard van Tonder <rvantonder@gmail.com>
Riku Voipio <riku.voipio@linaro.org>
Risto Jaakko Saarelma <rsaarelm@gmail.com>
Rob Earhart <earhart@google.com>
Rob Findley <rfindley@google.com>
Rob Norman <rob.norman@infinitycloud.com>
Rob Phoenix <rob@robfghoenix.com>
Rob Pike <r@golang.org>
Robert Ayrapetyan <robert.ayrapetyan@gmail.com>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
Robert Dinu <r@varp.se>
Robert Figueiredo <robffig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@gmail.com>
Robert Obryk <robryk@gmail.com>
Robert Sesek <sesek@gmail.com>
Robert Snedegar <roberts@gmail.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert van Gent <rvangent@gmail.com>
Robert-Andr Mauchin <zebob.m@gmail.com>
Roberto Clapis <robclap8@gmail.com>
Roberto Selbach <roberto@selbach.ca>
Robin Eklind <r.eklind.87@gmail.com>
Robin Zhong <robin@robinzhong.co>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Rodolfo Rodriguez <rodolfobgibson@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>
Roger Pau Monn <royger@gmail.com>
Roger Peppe <rogpeppe@gmail.com>
Rohan Challia <rohan@golang.org>
Rohan Verma <rohanverma2004@gmail.com>
Roland Illig <roland.illig@gmx.de>
Roland Shoemaker <rolandshoemaker@gmail.com>
Romain Bauque <romain.bauque@elwinar.com>
Roman Budnikov <romanyx90@yandex.ru>
Roman Kollr <roman.kollar.0@gmail.com>
Roman Shchekin <mrqtros@gmail.com>
Ron Hashimoto <mail@h2so5.net>
Ron Minnich <rminnich@gmail.com>
Open Source Used In SMI 2021.01.0-Jan-2022  24775

Ross Chater <rdchater@gmail.com>
Ross Light <light@google.com> <rlight2@gmail.com>
Ross Smith II <ross@smithii.com>
Rowan Marshall <rowanajmarshall@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rudi Kramer <rudi.kramer@gmail.com>
Rui Ueyama <ruui@google.com>
Ruixin Bao <ruixin.bao@ibm.com>
Ruslan Nigmatullin <elessar@dropbox.com>
Russ Cox <rsc@golang.org>
Russell Haering <russelthaering@gmail.com>
Ryan Bagwell <ryanbagwell@outlook.com>
Ryan Barrett <ryanb@gmail.com>
Ryan Boehning <ryan.boehning@apcera.com>
Ryan Brown <ribrdb@gmail.com>
Ryan Canty <jrcantry@gmail.com>
Ryan Dahl <ry@tinyclouds.org>
Ryan Hitchman <hitchmanr@gmail.com>
Ryan Lower <rplower@gmail.com>
Ryan Roden-Corrent <ryan@rcorre.net>
Ryan Seys <ryan@ryanseys.com>
Ryan Slade <ryanslade@gmail.com>
Ryan Zhang <ryan.zhang@docker.com>
Ryoichi KATO <ryo1kato@gmail.com>
Ryuji Iwata <qt.luigi@gmail.com>
Ryuma Yoshida <ryuma.y1117@gmail.com>
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>
S alar Onur <caglar@10ur.org>
Sabin Mihai Rapan <sabin.rapan@gmail.com>
Sad Pencil <qh06@qq.com>
Sai Cheemalapati <saicheems@gmail.com>
Sakeven Jiang <jc5930@sina.cn>
Salim Aljamnanz <s@0x65.net>
Sam Arnold <samold64@bloomberg.net>
Sam Boyer <tech@samboyer.org>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@gmail.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic@gmail.com>
Sami Pnknen <sami.ponkanen@gmail.com>
Samuel Kelemen <SCKelemen@users.noreply.github.com>
Samuel Tan <samueltan@gmail.com>
Samuele Pedroni <pedroni@lucediurna.net>
Sander van Harmelen <sander@vanharmelen.nl>
Sanjay Menakuru <balasanjay@gmail.com>
Santhosh Kumar Tekuri <santhosh.tekuri@gmail.com>
Sarah Adams <shadams@google.com>
Sardorbek Pulatov <sardorbek.pulatov@outlook.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@google.com>
Sasha Sobol <sasha@scaledinference.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Ragan <ragansa@fb.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@google.com>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <seanc@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Liao <seankhliao@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Chlopecki <sebsebmc@gmail.com>
Sebastian Kinne <skinne@gmail.com>
Sebastian Schmidt <yath@gmail.com>
Sebastien Binet <seb.binet@gmail.com>
Sebastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Lemeshkin <sergeilem@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergei Zagurskii <gvozdoder@gmail.com>
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synesis.ru>
Sergey Frolov <sfrolov@gmail.com>
Sergey Ivanov <ser1325@gmail.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiu Bazanski <bazanski@gmail.com>
Serhat Giydiren <serhatgiydiren@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Qingyun <qingyunha@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tcn1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@gmail.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnells@google.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@gmail.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Symborski <thomas.symborski@gmail.com>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tianji Wu <the729@gmail.com>
Tianon Gravi <admwigin@gmail.com>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Vojtech Bocek <vbocek@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotski <vpaprots@ca.ibm.com>
W. Trevor King <wking@tremily.us>
Wade Simmons <wade@wades.im>
Wagner Riffel <wgriffel@gmail.com>
Walter Poupore <wpoupore@google.com>
Wander Lairson Costa <wcosta@mozilla.com>
Wang Xuerui <git@xen0n.name>
Warren Fernandes <warren.f.fernandes@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@google.com>
Weerasak Chongnguluan <singpor@gmail.com>
Wi Cngru <crvv.mail@gmail.com>
Wei Fu <sfhuwei@163.com>
Wei Guangjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Wei Xikai <xykwei@gmail.com>
Weichao Tang <tevic.tt@gmail.com>
Wembly G. Leach, Jr <wembly.gl@gmail.com>
Wenlei (Frank) He <wlhe@google.com>
Wenzel Lowe <lowewenzel@gmail.com>
Wil Selwood <wselwood@gmail.com>
Wilfried Teiken <wteiken@google.com>
Will Beason <willbeason@gmail.com>
Will Chan <willchan@gmail.com>
Will Faught <will.faught@gmail.com>
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>
Will Norris <willnorris@google.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Chang <mr.williamchang@gmail.com>
William Josephson <wjosephson@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
William Poussier <william.poussier@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xry23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xiangdong Ji <xiangdong.ji@arm.com>
Xing Xing <mikespook@gmail.com>
Xingqiang Bai <bxq2011hust@qq.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicealias.com>
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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AES in libhcrypto

rijndael-alg-fst.c
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@version 3.0 (December 2000)

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

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

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DES core in libhcrypto

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D3DES (V5.09) -

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

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

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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lib/hcrypto/test_dh.c

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1.2330 golang.zx2c4.com/wireguard/wgctrl
v0.0.0-20200324154536-ceff61240acf

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1.2331 gls 4.20.0+incompatible

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// POSSIBILITY OF SUCH DAMAGE.
//
/**
 * This is bison grammar and productions for parsing all versions of the
 * GLSL shading languages.
 */
%

/* Based on:
  ANSI C Yacc grammar

In 1985, Jeff Lee published his Yacc grammar (which is accompanied by a
matching Lex specification) for the April 30, 1985 draft version of the
ANSI C standard. Tom Stockfisch reposted it to net.sources in 1987; that
original, as mentioned in the answer to question 17.25 of the comp.lang.c
FAQ, can be ftp'ed from ftp.uu.net, file usenet/net.sources/ansi.c.grammar.Z.

I intend to keep this version as close to the current C Standard grammar as
possible; please let me know if you discover discrepancies.

Jutta Degener, 1995
*/
%

#include "SymbolTable.h"
#include "ParseHelper.h"
#include ".../Public/ShaderLang.h"
#include "attribute.h"

using namespace glslang;
%

%define parse.error verbose

%union {
  struct {
    glslang::TSourceLoc loc;
    union {
      glslang::TString *string;
      int i;
      unsigned int u;
      long long i64;
      unsigned long long u64;
      bool b;
      double d;
    };
    glslang::TSymbol* symbol;
  } lex;
  struct {
    glslang::TSourceLoc loc;
  } sym;
}
glslang::TOperator op;
union {
    TIntermNode* intermNode;
    glslang::TIntermNodePair nodePair;
    glslang::TIntermTyped* intermTypedNode;
    glslang::TAttributes* attributes;
};
union {
    glslang::TPublicType type;
    glslang::TFunction* function;
    glslang::TParameter param;
    glslang::TTypeLoc typeLine;
    glslang::TTypeList* typeList;
    glslang::TArraySizes* arraySizes;
    glslang::TIdentifierList* identifierList;
};
} interm;
%
/* windows only pragma */
#ifdef _MSC_VER
    #pragma warning(disable : 4065)
    #pragma warning(disable : 4127)
    #pragma warning(disable : 4244)
#endif
#define parseContext (*pParseContext)
#define yyerror(context, msg) context->parserError(msg)
extern int yylex(YYSTYPE*, TParseContext&);
%
%parse-param {glslang::TParseContext* pParseContext}
%lex-param {parseContext}
%pure-parser // enable thread safety
%expect 1     // One shift reduce conflict because of if | else
%token <lex> ATTRIBUTE VARYING
%token <lex> FLOAT16_T FLOAT FLOAT32_T DOUBLE FLOAT64_T
%token <lex> CONST BOOL UINT INT64_T UINT64_T INT32_T UINT32_T INT16_T UINT16_T INT8_T UINT8_T
%token <lex> BREAK CONTINUE DO ELSE FOR IF DISCARD RETURN SWITCH CASE DEFAULT SUBROUTINE
%token <lex> BVEC2 BVEC3 BVEC4
%token <lex> IVEC2 IVEC3 IVEC4
\%token <lex> UVEC2 UVEC3 UVEC4
\%token <lex> I64VEC2 I64VEC3 I64VEC4
\%token <lex> U64VEC2 U64VEC3 U64VEC4
\%token <lex> I32VEC2 I32VEC3 I32VEC4
\%token <lex> U32VEC2 U32VEC3 U32VEC4
\%token <lex> I16VEC2 I16VEC3 I16VEC4
\%token <lex> U16VEC2 U16VEC3 U16VEC4
\%token <lex> I8VEC2 I8VEC3 I8VEC4
\%token <lex> U8VEC2 U8VEC3 U8VEC4
\%token <lex> VEC2 VEC3 VEC4
\%token <lex> MAT2 MAT3 MAT4 CENTROID IN OUT INOUT
\%token <lex> UNIFORM PATCH SAMPLE BUFFER SHARED
\%token <lex> COHERENT VOLATILE RESTRICT READONLY WRITEONLY
\%token <lex> DVEC2 DVEC3 DVEC4 DMAT2 DMAT3 DMAT4
\%token <lex> F16VEC2 F16VEC3 F16VEC4 F16MAT2 F16MAT3 F16MAT4
\%token <lex> F32VEC2 F32VEC3 F32VEC4 F32MAT2 F32MAT3 F32MAT4
\%token <lex> F64VEC2 F64VEC3 F64VEC4 F64MAT2 F64MAT3 F64MAT4
\%token <lex> NOPERSPECTIVE FLAT SMOOTH LAYOUT __EXPLICITINTERPAMD
\%token <lex> MAT2X2 MAT2X3 MAT2X4
\%token <lex> MAT3X2 MAT3X3 MAT3X4
\%token <lex> MAT4X2 MAT4X3 MAT4X4
\%token <lex> DMAT2X2 DMAT2X3 DMAT2X4
\%token <lex> DMAT3X2 DMAT3X3 DMAT3X4
\%token <lex> DMAT4X2 DMAT4X3 DMAT4X4
\%token <lex> F16MAT2X2 F16MAT2X3 F16MAT2X4
\%token <lex> F16MAT3X2 F16MAT3X3 F16MAT3X4
\%token <lex> F16MAT4X2 F16MAT4X3 F16MAT4X4
\%token <lex> F32MAT2X2 F32MAT2X3 F32MAT2X4
\%token <lex> F32MAT3X2 F32MAT3X3 F32MAT3X4
\%token <lex> F32MAT4X2 F32MAT4X3 F32MAT4X4
\%token <lex> F64MAT2X2 F64MAT2X3 F64MAT2X4
\%token <lex> F64MAT3X2 F64MAT3X3 F64MAT3X4
\%token <lex> F64MAT4X2 F64MAT4X3 F64MAT4X4
\%token <lex> ATOMIC_UINT

// combined image/sampler
\%token <lex> SAMPLER1D SAMPLER2D SAMPLER3D SAMPLERCUBE SAMPLER1DSHADOW SAMPLER2DSHADOW
\%token <lex> SAMPLERCUBESHADOW SAMPLER1DARRAY SAMPLER2DARRAY

\%token <lex> SAMPLER2DARRAYSHADOW ISAMPLER1D ISAMPLER2D ISAMPLER3D ISAMPLERCUBE
\%token <lex> ISAMPLER1DARRAY ISAMPLER2DARRAY USAMPLER1D USAMPLER2D USAMPLER3D
\%token <lex> USAMPLERCUBE USAMPLER1DARRAY USAMPLER2DARRAY
\%token <lex> SAMPLER2DIRECT SAMPLER2DIRECTSHADOW ISAMPLER2DIRECT USAMPLER2DIRECT
\%token <lex> SAMPLERBUFFER ISAMPLERBUFFER USAMPLERBUFFER
\%token <lex> SAMPLERCUBEARRAY SAMPLERCUBEARRAYSHADOW
\%token <lex> ISAMPLERCUBEARRAY USAMPLERCUBEARRAY
%token <lex> SAMPLER2DMS ISAMPLER2DMS USAMPLER2DMS
%token <lex> SAMPLER2DMSARRAY ISAMPLER2DMSARRAY USAMPLER2DMSARRAY
%token <lex> SAMPLEREXTERNALES

%token <lex> F16SAMPLER1D F16SAMPLER2D F16SAMPLER3D F16SAMPLER2DRECT
F16SAMPLERCUBE
%token <lex> F16SAMPLER1DARRAY F16SAMPLER2DARRAY F16SAMPLERCUBEARRAY
%token <lex> F16SAMPLERBUFFER F16SAMPLER2DMS F16SAMPLER2DMSARRAY
%token <lex> F16SAMPLER1DSHADOW F16SAMPLER2DSHADOW F16SAMPLER1DARRAYSHADOW
F16SAMPLER2DARRAYSHADOW
%token <lex> F16SAMPLER2DRECTSHADOW F16SAMPLERCUBESHADOW
F16SAMPLERCUBEARRAYSHADOW

// pure sampler
%token <lex> SAMPLER SAMPLERSHADOW

// texture without sampler
%token <lex> TEXTURE1D TEXTURE2D TEXTURE3D TEXTURECUBE
%token <lex> TEXTURE1DARRAY TEXTURE2DARRAY
%token <lex> ITEXTURE1D ITEXTURE2D ITEXTURE3D ITEXTURECUBE
%token <lex> ITEXTURE1DARRAY ITEXTURE2DARRAY UTEXTURE1D UTEXTURE2D
%token <lex> UTEXTURECUBE UTEXTURE1DARRAY UTEXTURE2DARRAY
%token <lex> TEXTURE2DIRECT ITEXTURE2DIRECT UTEXTURE2DIRECT
%token <lex> TEXTUREBUFFER ITEXTUREBUFFER UTEXTUREBUFFER
%token <lex> TEXTURECUBEARRAY ITEXTURECUBEARRAY UTEXTURECUBEARRAY
%token <lex> TEXTURE2DMS ITEXTURE2DMS UTEXTURE2DMS
%token <lex> TEXTURE2DMSARRAY ITEXTURE2DMSARRAY UTEXTURE2DMSARRAY

%token <lex> F16TEXTURE1D F16TEXTURE2D F16TEXTURE3D F16TEXTURE2DRECT
F16TEXTURECUBE
%token <lex> F16TEXTURE1DARRAY F16TEXTURE2DARRAY F16TEXTURECUBEARRAY
%token <lex> F16TEXTUREBUFFER F16TEXTURE2DMS F16TEXTURE2DMSARRAY

// input attachments
%token <lex> SUBPASSINPUT SUBPASSINPUTMS ISUBPASSINPUT ISUBPASSINPUTMS
USUBPASSINPUT USUBPASSINPUTMS
%token <lex> F16SUBPASSINPUT F16SUBPASSINPUTMS

%token <lex> IMAGE1D IIMAGE1D UIMAGE1D IMAGE2D IIMAGE2D
%token <lex> UIMAGE2D IIMAGE3D UIMAGE3D
%token <lex> IMAGE2DIRECT IIMAGE2DIRECT UIMAGE2DIRECT
%token <lex> IIMAGECUBE IIMAGECUBE UIMAGECUBE
%token <lex> IMAGEBUFFER IIMAGEBUFFER UIMAGEBUFFER
%token <lex> IMAGE1DARRAY IIMAGE1DARRAY UIMAGE1DARRAY
%token <lex> IMAGE2DARRAY IIMAGE2DARRAY UIMAGE2DARRAY
%token <lex> IMAGECUBEARRAY IIMAGECUBEARRAY UIMAGECUBEARRAY
%token <lex> IMAGE2DMS IIMAGE2DMS UIMAGE2DMS
%token <lex> IMAGE2DMSARRAY IIMAGE2DMSARRAY UIMAGE2DMSARRAY
statement_no_new_scope statement_scoped
%type <interm> single_declaration init_declarator_list

%type <interm> parameter_declaration parameter_declarator parameter_type_specifier

%type <interm> array_specifier
%type <interm.type> precise_qualifier invariant_qualifier interpolation_qualifier storage_qualifier precision_qualifier
%type <interm.type> layout_qualifier layout_qualifier_id_list layout_qualifier_id

%type <interm.type> type_qualifier fully_specified_type_type_specifier
%type <interm.type> single_type_qualifier
%type <interm.type> type_specifier_nonarray
%type <interm.type> struct_specifier
%type <interm.typeLine> struct_declarator
%type <interm.typeList> struct_declarator_list struct_declaration struct_declaration_list type_name_list
%type <interm> block_structure
%type <interm.function> function_header function_declarator
%type <interm.function> function_header_with_parameters
%type <interm> function_call_header_with_parameters function_call_header_no_parameters function_call_generic function_prototype
%type <interm> function_call_or_method function_identifier function_call_header

%type <interm.identifierList> identifier_list

%type <interm.attributes> attribute attribute_list single_attribute

%start translation_unit
%%

variable_identifier : IDENTIFIER {
    $$ = parseContext.handleVariable($1.loc, $1.symbol, $1.string);
}
;

primary_expression : variable_identifier {
    $$ = $1;
}
| INT32CONSTANT {
    parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
    $$ = parseContext.intermediate.addConstantUnion($1.i, $1.loc, true);
}
| UINT32CONSTANT {
    parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
    $$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
}
INTCONSTANT {
    $$ = parseContext.intermediate.addConstantUnion($1.i, $1.loc, true);
}

UINTCONSTANT {
    parseContext.fullIntegerCheck($1.loc, "unsigned literal");
    $$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
}

INT64CONSTANT {
    parseContext.int64Check($1.loc, "64-bit integer literal");
    $$ = parseContext.intermediate.addConstantUnion($1.i64, $1.loc, true);
}

UINT64CONSTANT {
    parseContext.int64Check($1.loc, "64-bit unsigned integer literal");
    $$ = parseContext.intermediate.addConstantUnion($1.u64, $1.loc, true);
}

INT16CONSTANT {
    parseContext.explicitInt16Check($1.loc, "16-bit integer literal");
    $$ = parseContext.intermediate.addConstantUnion((short)$1.i, $1.loc, true);
}

UINT16CONSTANT {
    parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer literal");
    $$ = parseContext.intermediate.addConstantUnion((unsigned short)$1.u, $1.loc, true);
}

FLOATCONSTANT {
    $$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat, $1.loc, true);
}

DOUBLECONSTANT {
    parseContext.doubleCheck($1.loc, "double literal");
    $$ = parseContext.intermediate.addConstantUnion($1.d, EbtDouble, $1.loc, true);
}

FLOAT16CONSTANT {
    parseContext.float16Check($1.loc, "half float literal");
    $$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat16, $1.loc, true);
}

BOOLCONSTANT {
    $$ = parseContext.intermediate.addConstantUnion($1.b, $1.loc, true);
}

LEFT_PAREN expression RIGHT_PAREN {
    $$ = $2;
    if ($$->getAsConstantUnion())
        $$->getAsConstantUnion()->setExpression();
}

postfix_expression:
    primary_expression {
        $$ = $1;
    }

| postfix_expression LEFT_BRACKET integer_expression RIGHT_BRACKET {  
|   $$ = parseContext.handleBracketDereference($2.loc, $1, $3);  
| }
| function_call {  
|   $$ = $1;  
| }
| postfix_expression DOT IDENTIFIER {  
|   $$ = parseContext.handleDotDereference($3.loc, $1, *$3.string);  
| }
| postfix_expression INC_OP {  
|   parseContext.variableCheck($1);  
|   parseContext.lValueErrorCheck($2.loc, "++", $1);  
|   $$ = parseContext.handleUnaryMath($2.loc, "++", EOpPostIncrement, $1);  
| }
| postfix_expression DEC_OP {  
|   parseContext.variableCheck($1);  
|   parseContext.lValueErrorCheck($2.loc, "--", $1);  
|   $$ = parseContext.handleUnaryMath($2.loc, "--", EOpPostDecrement, $1);  
| }
|
integer_expression  
: expression {  
|   parseContext.integerCheck($1, "[]");  
|   $$ = $1;  
| }
|
function_call  
: function_call_or_method {  
|   $$ = parseContext.handleFunctionCall($1.loc, $1.function, $1.intermNode);  
|   delete $1.function;  
| }
|
function_call_or_method  
: function_call_header_with_parameters RIGHT_PAREN {  
|   $$ = $1;  
|   $$.$loc = $2.$loc;  
| }
| function_call_header_no_parameters RIGHT_PAREN {  
|   $$ = $1;  
| }
function_call_header_no_parameters
: function_call_header VOID {
    $$ = $1;
}
| function_call_header {
    $$ = $1;
}
|

function_call_header_with_parameters
: function_call_header assignment_expression {
    TParameter param = { 0, new TType };  
    param.type->shallowCopy($2->getType());  
    $1.function->addParameter(param);  
    $$ = $1.function;  
    $$ = $2;
}
| function_call_header_with_parameters COMMA assignment_expression {
    TParameter param = { 0, new TType };  
    param.type->shallowCopy($3->getType());  
    $1.function->addParameter(param);  
    $$ = $1.function;  
    $$ = parseContext.intermediate.growAggregate($1.intermNode, $3, $2.loc);
}
|

function_call_header
: function_identifier LEFT_PAREN {
    $$ = $1;
}
|

// Grammar Note: Constructors look like functions, but are recognized as types.

function_identifier
: type_specifier {
    // Constructor
    $$ = $1
    $$ = parseContext.handleConstructorCall($1.loc, $1);
}
| postfix_expression {
    // Should be a method or subroutine call, but we haven't recognized the arguments yet.
    //
$.function = 0;
$.intermNode = 0;

TIntermMethod* method = $1->getAsMethodNode();
if (method) {
    $.function = new TFunction(&method->getMethodName(), TType(EbtInt), EOpArrayLength);
    $.intermNode = method->getObject();
} else {
    TIntermSymbol* symbol = $1->getAsSymbolNode();
    if (symbol) {
        parseContext.reservedErrorCheck(symbol->getLoc(), symbol->getName());
        TFunction *function = new TFunction(&symbol->getName(), TType(EbtVoid));
        $.function = function;
    } else
        parseContext.error($1->getLoc(), "function call, method, or subroutine call expected", "", ";");
}

if ($.function == 0) {
    // error recover
    TString empty(""");
    $.function = new TFunction(&empty, TType(EbtVoid), EOpNull);
}

unary_expression
  : postfix_expression {
    parseContext.variableCheck($1);
    $$ = $1;
    if (TIntermMethod* method = $1->getAsMethodNode())
        parseContext.error($1->getLoc(), "incomplete method syntax", method->getMethodName().c_str(), ";");
}
  | INC_OP unary_expression {
    parseContext.lValueErrorCheck($1.loc, "++", $2);
    $$ = parseContext.handleUnaryMath($1.loc, "++", EOpPreIncrement, $2);
  }
  | DEC_OP unary_expression {
    parseContext.lValueErrorCheck($1.loc, "--", $2);
    $$ = parseContext.handleUnaryMath($1.loc, "--", EOpPreDecrement, $2);
  }
  | unary_operator unary_expression {
    if ($1.op != EOpNull) {
        char errorOp[2] = {0, 0};
        switch($1.op) {
            case EOpNegative: errorOp[0] = '-'; break;
            case EOpLogicalNot: errorOp[0] = '!'; break;
            case EOpBitwiseNot: errorOp[0] = '~'; break;
            default: break; // some compilers want this
$$ = parseContext.handleUnaryMath($1.loc, errorOp, $1.op, $2);
} else {
    $$ = $2;
    if ($$->getAsConstantUnion())
        $$->getAsConstantUnion()->setExpression();
}

// Grammar Note: No traditional style type casts.

unary_operator
  : PLUS { $$.loc = $1.loc; $$.op = EOpNull; }
  | DASH { $$.loc = $1.loc; $$.op = EOpNegative; }
  | BANG { $$.loc = $1.loc; $$.op = EOpLogicalNot; }
  | TILDE { $$.loc = $1.loc; $$.op = EOpBitwiseNot;
             parseContext.fullIntegerCheck($1.loc, "bitwise not"); }

// Grammar Note: No '*' or '&' unary ops. Pointers are not supported.

multiplicative_expression
  : unary_expression { $$ = $1; }
  | multiplicative_expression STAR unary_expression {
      $$ = parseContext.handleBinaryMath($2.loc, "+", EOpAdd, $1, $3);
      if ($$ == 0)
          $$ = $1;
  }
  | multiplicative_expression SLASH unary_expression {
      $$ = parseContext.handleBinaryMath($2.loc, "/", EOpDiv, $1, $3);
      if ($$ == 0)
          $$ = $1;
  }
  | multiplicative_expression PERCENT unary_expression {
      parseContext.fullIntegerCheck($2.loc, "/");
      $$ = parseContext.handleBinaryMath($2.loc, "/", EOpMod, $1, $3);
      if ($$ == 0)
          $$ = $1;
  }

additive_expression
  : multiplicative_expression { $$ = $1; }
  | additive_expression PLUS multiplicative_expression {
      $$ = parseContext.handleBinaryMath($2.loc, "+", EOpAdd, $1, $3);
      if ($$ == 0)
          $$ = $1;
  }
  | additive_expression DASH multiplicative_expression {
```plaintext
\$$ = \text{parseContext.handleBinaryMath(}$$2.\text{loc, }"-", \text{EOpSub, }$$1, $$3);$$
if ($$ == 0)$$
    $$ = $$1;
}

\text{shift_expression}
: \text{additive_expression} \{ $$ = $$1; \}$$
| \text{shift_expression LEFT_OP additive_expression}$$
    \text{parseContext.fullIntegerCheck(}$$2.\text{loc, }"bit shift left");$$
    $$ = \text{parseContext.handleBinaryMath(}$$2.\text{loc, }"<<", \text{EOpLeftShift, }$$1, $$3);$$
    if ($$ == 0)$$
        $$ = $$1;
    
| \text{shift_expression RIGHT_OP additive_expression}$$
    \text{parseContext.fullIntegerCheck(}$$2.\text{loc, }"bit shift right");$$
    $$ = \text{parseContext.handleBinaryMath(}$$2.\text{loc, }">>", \text{EOpRightShift, }$$1, $$3);$$
    if ($$ == 0)$$
        $$ = $$1;
}

\text{relational_expression}
: shift_expression \{ $$ = $$1; \}$$
| \text{relational_expression LEFT_ANGLE shift_expression}$$
    $$ = \text{parseContext.handleBinaryMath(}$$2.\text{loc, }"<", \text{EOpLessThan, }$$1, $$3);$$
    if ($$ == 0)$$
        $$ = \text{parseContext.intermediate.addConstantUnion(false, }$$2.\text{loc});$$
    
| \text{relational_expression RIGHT_ANGLE shift_expression} $$
    $$ = \text{parseContext.handleBinaryMath(}$$2.\text{loc, }">", \text{EOpGreaterThan, }$$1, $$3);$$
    if ($$ == 0)$$
        $$ = \text{parseContext.intermediate.addConstantUnion(false, }$$2.\text{loc});$$

| \text{relational_expression LE_OP shift_expression} $$
    $$ = \text{parseContext.handleBinaryMath(}$$2.\text{loc, }"\leq", \text{EOpLessThanEqual, }$$1, $$3);$$
    if ($$ == 0)$$
        $$ = \text{parseContext.intermediate.addConstantUnion(false, }$$2.\text{loc});$$
    
| \text{relational_expression GE_OP shift_expression} $$
    $$ = \text{parseContext.handleBinaryMath(}$$2.\text{loc, }">=", \text{EOpGreaterThanEqual, }$$1, $$3);$$
    if ($$ == 0)$$
        $$ = \text{parseContext.intermediate.addConstantUnion(false, }$$2.\text{loc});$$
    
\text{equality_expression}$$
: \text{relational_expression} \{ $$ = $$1; \}$$
```

equality_expression EQ_OP relational_expression {
parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
parseContext.opaqueCheck($2.loc, $1->getType(), "==");
parseContext.specializationCheck($2.loc, $1->getType(), "==");
$$ = parseContext.handleBinaryMath($2.loc, "==", EOpEqual, $1, $3);
if ($$ == 0)
  $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
equality_expression NE_OP relational_expression {
parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
parseContext.opaqueCheck($2.loc, $1->getType(), "!='");
parseContext.specializationCheck($2.loc, $1->getType(), "!='");
$$ = parseContext.handleBinaryMath($2.loc, "!='", EOpNotEqual, $1, $3);
if ($$ == 0)
  $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;
and_expression : equality_expression { $$ = $1; }
and_expression AMPERSAND equality_expression {
parseContext.fullIntegerCheck($2.loc, "bitwise and");
$$ = parseContext.handleBinaryMath($2.loc, "&", EOpAnd, $1, $3);
if ($$ == 0)
  $$ = $1;
}
;
exclusive_or_expression : and_expression { $$ = $1; }
exclusive_or_expression CARET and_expression {
parseContext.fullIntegerCheck($2.loc, "bitwise exclusive or");
$$ = parseContext.handleBinaryMath($2.loc, "^", EOpExclusiveOr, $1, $3);
if ($$ == 0)
  $$ = $1;
}
;
inclusive_or_expression : exclusive_or_expression { $$ = $1; }
inclusive_or_expression VERTICAL_BAR exclusive_or_expression {
parseContext.fullIntegerCheck($2.loc, "bitwise inclusive or");
$$ = parseContext.handleBinaryMath($2.loc, "|", EOpInclusiveOr, $1, $3);
if ($$ == 0)
  $$ = $1;
}
;
logical_and_expression
: inclusive_or_expression { $$ = $1; }
| logical_and_expression AND_OP inclusive_or_expression {
$$ = parseContext.handleBinaryMath($2.loc, "&&", EOpLogicalAnd, $1, $3);
if ($$ == 0)
$$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

logical_xor_expression
: logical_and_expression { $$ = $1; }
| logical_xor_expression XOR_OP logical_and_expression {
$$ = parseContext.handleBinaryMath($2.loc, "^^", EOpLogicalXor, $1, $3);
if ($$ == 0)
$$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

logical_or_expression
: logical_xor_expression { $$ = $1; }
| logical_or_expression OR_OP logical_xor_expression {
$$ = parseContext.handleBinaryMath($2.loc, "||", EOpLogicalOr, $1, $3);
if ($$ == 0)
$$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

conditional_expression
: logical_or_expression { $$ = $1; }
| logical_or_expression QUESTION {
++parseContext.controlFlowNestingLevel;
}
extension COLON assignment_expression {
--parseContext.controlFlowNestingLevel;
parseContext.boolCheck($2.loc, $1);
parseContext.rValueErrorCheck($2.loc, ",?", $1);
parseContext.rValueErrorCheck($5.loc, ",:"$, $4);
parseContext.rValueErrorCheck($5.loc, ",:"$, $6);
$$ = parseContext.intermediate.addSelection($1, $4, $6, $2.loc);
if ($$ == 0) {
parseContext.binaryOpError($2.loc, ",:"$, $4->getCompleteString(), $6->getCompleteString());
$$ = $6;
}
}

assignment_expression
: conditional_expression { $$ = $1; }
unary_expression assignment_operator assignment_expression {
  parseContext.arrayObjectCheck($2.loc, $1->getType(), "array assignment");
  parseContext.opaqueCheck($2.loc, $1->getType(), "=");
  parseContext.specializationCheck($2.loc, $1->getType(), "=");
  parseContext.lValueErrorCheck($2.loc, "assign", $1);
  parseContext.rValueErrorCheck($2.loc, "assign", $3);
  $$ = parseContext.intermediate.addAssign($2.op, $1, $3, $2.loc);
  if ($$ == 0) {
    parseContext,assignError($2.loc, "assign", $1->getCompleteString(), $3->getCompleteString());
    $$ = $1;
  }
}

assignment_operator
  : EQUAL {
    $$\text{.loc} = \$1\text{.loc};
    $$\text{.op} = \text{EOpAssign};
  }
  | MUL_ASSIGN {
    $$\text{.loc} = \$1\text{.loc};
    $$\text{.op} = \text{EOpMulAssign};
  }
  | DIV_ASSIGN {
    $$\text{.loc} = \$1\text{.loc};
    $$\text{.op} = \text{EOpDivAssign};
  }
  | MOD_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, ";%=");
    $$\text{.loc} = \$1\text{.loc};
    $$\text{.op} = \text{EOpModAssign};
  }
  | ADD_ASSIGN {
    $$\text{.loc} = \$1\text{.loc};
    $$\text{.op} = \text{EOpAddAssign};
  }
  | SUB_ASSIGN {
    $$\text{.loc} = \$1\text{.loc};
    $$\text{.op} = \text{EOpSubAssign};
  }
  | LEFT_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bit-shift left assign");
    $$\text{.loc} = \$1\text{.loc}; $$\text{.op} = \text{EOpLeftShiftAssign};
  }
  | RIGHT_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bit-shift right assign");
    $$\text{.loc} = \$1\text{.loc}; $$\text{.op} = \text{EOpRightShiftAssign};
}
AND_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bitwise-and assign");
    $$ = $1.loc; $$ = EOpAndAssign;
}

XOR_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bitwise-xor assign");
    $$ = $1.loc; $$ = EOpExclusiveOrAssign;
}

OR_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bitwise-or assign");
    $$ = $1.loc; $$ = EOpInclusiveOrAssign;
}

expression
    : assignment_expression {
        $$ = $1;
    }
    | expression COMMA assignment_expression {
        parseContext.samplerConstructorLocationCheck($2.loc, ",", $3);
        $$ = parseContext.intermediate.addComma($1, $3, $2.loc);
        if ($$ == 0) {
            parseContext.binaryOpError($2.loc, ",", $1->getCompleteString(), $3->getCompleteString());
            $$ = $3;
        }
    }

constant_expression
    : conditional_expression {
        parseContext.constantValueCheck($1, "");
        $$ = $1;
    }

declaration
    : function_prototype SEMICOLON {
        parseContext.handleFunctionDeclarator($1.loc, *$1.function, true /* prototype */);
        $$ = 0;
        // TODO: 4.0 functionality: subroutines: make the identifier a user type for this signature
    }
    | init_declarator_list SEMICOLON {
        if ($1.intermNode && $1.intermNode->getAsAggregate())
            $1.intermNode->getAsAggregate()->setOperator(EOpSequence);
        $$ = $1.intermNode;
    }
    | PRECISION precision_qualifier type_specifier SEMICOLON {
        parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "precision statement");
// lazy setting of the previous scope's defaults, has effect only the first time it is called in a particular scope
parseContext.symbolTable.setPreviousDefaultPrecisions(&parseContext.defaultPrecision[0]);
parseContext.setDefaultPrecision($1.loc, $3, $2.qualifier.precision);
$$ = 0;
}
| block_structure SEMICOLON {
  parseContext.declareBlock($1.loc, *$1.typeList);
  $$ = 0;
}
| block_structure IDENTIFIER SEMICOLON {
  parseContext.declareBlock($1.loc, *$1.typeList, $2.string);
  $$ = 0;
}
| block_structure IDENTIFIER array_specifier SEMICOLON {
  parseContext.declareBlock($1.loc, *$1.typeList, $2.string, $3.arraySizes);
  $$ = 0;
}
| type_qualifier SEMICOLON {
  parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
  parseContext.updateStandaloneQualifierDefaults($1.loc, $1);
  $$ = 0;
}
| type_qualifier IDENTIFIER SEMICOLON {
  parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
  parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$2.string);
  $$ = 0;
}
| type_qualifier IDENTIFIER identifier_list SEMICOLON {
  parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
  $3->push_back($2.string);
  parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$3);
  $$ = 0;
}
;

block_structure
: type_qualifier IDENTIFIER LEFT_BRACE { parseContext.nestedBlockCheck($1.loc); } struct_declaration_list
RIGHT_BRACE {
  --parseContext.structNestingLevel;
  parseContext.blockName = $2.string;
  parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
  parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
  parseContext.currentBlockQualifier = $1.qualifier;
  $$.loc = $1.loc;
  $$typeList = $5;
}
identifier_list
  : COMMA IDENTIFIER {
    $$ = new TIdentifierList;
    $$->push_back($2.string);
  }
  | identifier_list COMMA IDENTIFIER {
    $$ = $1;
    $$->push_back($3.string);
  }
  ;

function_prototype
  : function_declarator RIGHT_PAREN {
    $$,function = $1;
    $$,loc = $2.loc;
  }
  ;

function_declarator
  : function_header {
    $$ = $1;
  }
  | function_header_with_parameters {
    $$ = $1;
  }
  ;

function_header_with_parameters
  : function_header parameter_declaration {
    // Add the parameter
    $$ = $1;
    if ($2.param,type->getType() != EbtVoid)
      $1->addParameter($2.param);
    else
      delete $2.param.type;
  }
  | function_header_with_parameters COMMA parameter_declaration {
    // Only first parameter of one-parameter functions can be void
    // The check for named parameters not being void is done in parameter_declarator
    //
    if ($3.param.type->getType() == EbtVoid) {
      //
      // This parameter > first is void
      //
      parseContext.error($2.loc, "cannot be an argument type except for \'(void)\'', "void", ",");
      delete $3.param.type;
} else {
    // Add the parameter
    $$ = $1;
    $1->addParameter($3.param);
}
}

function_header : fully_specified_type IDENTIFIER LEFT_PAREN {
    if ($1.qualifier.storage != EvqGlobal && $1.qualifier.storage != EvqTemporary) {
        parseContext.error($2.loc, "no qualifiers allowed for function return",
                        GetStorageQualifierString($1.qualifier.storage), "");
    }
    if ($1.arraySizes)
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);

    if ($1.basictype == EbtVoid) {
        parseContext.error($2.loc, "illegal use of type 'void'", $2.string->c_str(), "");
    }
    parseContext.reservedErrorCheck($2.loc, *$2.string);
    TParameter param = {$2.string, new TType($1)};
    $$ = param;
}

parameter_declarator : type_specifier IDENTIFIER array_specifier {
    if ($1.arraySizes) {
        parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
    }
    if ($1.basictype == EbtVoid) {
        parseContext.error($2.loc, "illegal use of type 'void'", $2.string->c_str(), "");
    }
    parseContext.reservedErrorCheck($2.loc, *$2.string);

    TParameter param = {$2.string, new TType($1)};
    $$ = $2.loc;
    $$param = param;
}

| type_specifier IDENTIFIER array_specifier {

---
if ($1.arraySizes) {
    parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
    parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
    parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
}
parseContext.arrayDimCheck($2.loc, $1.arraySizes, $3.arraySizes);
parseContext.arraySizeRequiredCheck($3.loc, *$3.arraySizes);
parseContext.reservedErrorCheck($2.loc, *$2.string);
TParameter param = { $2.string, new TType($1)};
parseContext.arrayDimMerge(*param.type, $3.arraySizes);

$$.loc = $2.loc;
$$.$param = param;
}

parameter_declaration

//
// With name
//
| type_qualifier parameter_declarator {
| $$ = $2;
| if ($1.qualifier.precision != EpqNone)
|     $$.$param.type->getQualifier().precision = $1.qualifier.precision;
| parseContext.precisionQualifierCheck($$.loc, $$.$param.type->getBasicType(), $$.$param.type->getQualifier());

parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$.$param.type);
parseContext.paramCheckFix($1.loc, $1.qualifier, *$$.$param.type);
}

| parameter_declarator {
| $$ = $1;

parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
parseContext.paramCheckFix($1.loc, EvqTemporary, *$$.$param.type);
parseContext.precisionQualifierCheck($$.loc, $$.$param.type->getBasicType(), $$.$param.type->getQualifier());
}
//
// Without name
//
| type_qualifier parameter_type_specifier {
| $$ = $2;
| if ($1.qualifier.precision != EpqNone)
|     $$.$param.type->getQualifier().precision = $1.qualifier.precision;
| parseContext.precisionQualifierCheck($1.loc, $$.$param.type->getBasicType(), $$.$param.type->getQualifier());
}
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```plaintext
parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, **$$.param.type);
parseContext.paramCheckFix($1.loc, $1.qualifier, **$$.param.type);
}
}

| parameter_type_specifier {
|   $$ = $1;
|
parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
parseContext.paramCheckFix($1.loc, EvqTemporary, **$$.param.type);
parseContext.precisionQualifierCheck($$.loc, $$.param.type->getBasicType(), **$$.param.type->getQualifier());
}

parameter_type_specifier
: type_specifier {
   TParameter param = { 0, new TType($1) };
   $$,param = param;
   if ($1.arraySizes)
      parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
}

init_declarator_list
: single_declarator {
   $$ = $1;
}

| init_declarator_list COMMA IDENTIFIER {
|   $$ = $1;
|   parseContext.declareVariable($3.loc, *$3.string, $1.type);
}

| init_declarator_list COMMA IDENTIFIER array_specifier {
|   $$ = $1;
|   parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes);
}

| init_declarator_list COMMA IDENTIFIER array_specifier EQUAL initializer {
|   $$,type = $1.type;
|   TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes, $6);
|   $$,intermNode = parseContext.intermediate.growAggregate($1.intermNode, initNode, $5.loc);
}

| init_declarator_list COMMA IDENTIFIER EQUAL initializer {
|   $$,type = $1.type;
|   TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, 0, $5);
|   $$,intermNode = parseContext.intermediate.growAggregate($1.intermNode, initNode, $4.loc);
}

single_declarator
```
fully_specified_type :

$type = $1;
$$.internode = 0;
parseContext.declareTypeDefaults($$.loc, $$.type);
}

| fully_specified_type IDENTIFIER {
$type = $1;
$$.internode = 0;
parseContext.declareVariable($2.loc, *$2.string, $1);
}

| fully_specified_type IDENTIFIER array_specifier {
$type = $1;
$$.internode = 0;
parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes);
}

| fully_specified_type IDENTIFIER array_specifier EQUAL initializer {
$$ = $1;
TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes, $5);
$$.internode = parseContext.intermediate.growAggregate(0, initNode, $4.loc);
}

| fully_specified_type IDENTIFIER EQUAL initializer {
$$ = $1;
TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, 0, $4);
$$.internode = parseContext.intermediate.growAggregate(0, initNode, $3.loc);
}

// Grammar Note: No 'enum', or 'typedef'.

fully_specified_type :

type_specifier {
$$ = $1;

parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $$);
if ($1.arraySizes) {
parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
}

parseContext.precisionQualifierCheck($$.loc, $$.basicType, $$.qualifier);
}

| type_qualifier type_specifier {
parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $2);

if ($2.arraySizes) {
parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
parseContext.profileRequires($2.loc, EEsProfile, 300, 0, "arrayed type");
}
if ($2.arraySizes && parseContext.arrayQualifierError($2.loc, $1.qualifier))
  $2.arraySizes = 0;

parseContext.checkNoShaderLayouts($2.loc, $1.shaderQualifiers);
$2.shaderQualifiers.merge($1.shaderQualifiers);
parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

$$ = $2;

if (! $$.qualifier.isInterpolation() &&
    ((parseContext.language == EShLangVertex && $$.qualifier.storage == EvqVaryingOut) ||
    (parseContext.language == EShLangFragment && $$.qualifier.storage == EvqVaryingIn)))
  $$.qualifier.smooth = true;
}

: INVARIANT {
  parseContext.globalCheck($1.loc, "invariant");
  parseContext.profileRequires($$.loc, ENoProfile, 120, 0, "invariant");
  $$.init($1.loc);
  $$.$$.qualifier.invariant = true;
}

: SMOOTH {
  parseContext.globalCheck($1.loc, "smooth");
  parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "smooth");
  parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "smooth");
  $$.$$.init($1.loc);
  $$.$$.qualifier.smooth = true;
}

| FLAT {
  parseContext.globalCheck($1.loc, "flat");
  parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "flat");
  parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "flat");
  $$.$$.init($1.loc);
  $$.$$.qualifier.flat = true;
}

| NOSPERSPECTIVE {
  parseContext.globalCheck($1.loc, "noperspective");
  parseContext.requireProfile($1.loc, ~EEsProfile, "noperspective");
  parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "noperspective");
  $$.$$.init($1.loc);
  $$.$$.qualifier.nopersp = true;
Open Source Used In SMI 2021.01.0-Jan-2022 24888

```c
#ifdef AMD_EXTENSIONS
    parseContext.globalCheck($1.loc, "__explicitInterpAMD");
    parseContext.profileRequires($1.loc, ECoreProfile, 450, E_GL_AMD_shader_explicit_vertex_parameter, "explicit interpolation");
    parseContext.profileRequires($1.loc, ECompatibilityProfile, 450, E_GL_AMD_shader_explicit_vertex_parameter, "explicit interpolation");
    $$init($1.loc);
    $$.qualifier.explicitInterp = true;
#endif
}

layout_qualifier
    : LAYOUT LEFT_PAREN layout_qualifier_id_list RIGHT_PAREN {
        $$ = $3;
    }

layout_qualifier_id_list
    : layout_qualifier_id {
        $$ = $1;
    }
    | layout_qualifier_id_list COMMA layout_qualifier_id {
        $$ = $1;
        $$ shaderQualifiers.merge($3.shaderQualifiers);
        parseContext.mergeObjectLayoutQualifiers($$.qualifier, $3.qualifier, false);
    }

layout_qualifier_id
    : IDENTIFIER {
        $$init($1.loc);
        parseContext.setLayoutQualifier($1.loc, $$, *$1.string);
    }
    | IDENTIFIER EQUAL constant_expression {
        $$init($1.loc);
        parseContext.setLayoutQualifier($1.loc, $$, *$1.string, $3);
    }
    | SHARED { // because "shared" is both an identifier and a keyword
        $$init($1.loc);
        TString strShared("shared");
        parseContext.setLayoutQualifier($1.loc, $$, strShared);
    }

precise_qualifier
    : PRECISE {
```
parseContext.profileRequires($$.loc, ECoreProfile | ECompatibilityProfile, 400, E_GL_ARB_gpu_shader5, "precise");
parseContext.profileRequires($1.loc, EEsProfile, 320, Num_AEP_gpu_shader5, AEP_gpu_shader5, "precise");
$$.$init($1.loc);
$$.$Qualifier.$noContraction = true;
}
;

type_qualifier
  : single_type_qualifier {
$$ = $1;
}
| type_qualifier single_type_qualifier {
$$ = $1;
  if ($$.basicType == EbtVoid)
    $$.$basicType = $2.$basicType;

$$.$shaderQualifiers.$merge($2.$shaderQualifiers);
parseContext.$mergeQualifiers($$.loc, $$.$Qualifier, $2.$Qualifier, false);
}
;

single_type_qualifier
  : storage_qualifier {
$$ = $1;
}
| layout_qualifier {
$$ = $1;
}
| precision_qualifier {
  parseContext.$checkPrecisionQualifier($1.$loc, $1.$Qualifier.$precision);
$$ = $1;
}
| interpolation_qualifier {
  // allow inheritance of storage qualifier from block declaration
$$ = $1;
}
| invariant_qualifier {
  // allow inheritance of storage qualifier from block declaration
$$ = $1;
}
| precise_qualifier {
  // allow inheritance of storage qualifier from block declaration
$$ = $1;
}
;

storage_qualifier
: CONST {
  $$init($1.loc);
  $$qualifier.storage = EvqConst; // will later turn into EvqConstReadOnly, if the initializer is not constant
}

| ATTRIBUTE {
  parseContext.requireStage($1.loc, EShLangVertex, "attribute");
  parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "attribute");
  parseContext.checkDeprecated($1.loc, ENoProfile, 130, "attribute");
  parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "attribute");
  parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "attribute");

  parseContext.globalCheck($1.loc, "attribute");

  $$init($1.loc);
  $$qualifier.storage = EvqVaryingIn;
}

| VARYING {
  parseContext.checkDeprecated($1.loc, ENoProfile, 130, "varying");
  parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "varying");
  parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "varying");
  parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "varying");

  parseContext.globalCheck($1.loc, "varying");

  $$init($1.loc);
  if (parseContext.language == EShLangVertex)
    $$qualifier.storage = EvqVaryingOut;
  else
    $$qualifier.storage = EvqVaryingIn;
}

| INOUT {
  parseContext.globalCheck($1.loc, "inout");
  $$init($1.loc);
  $$qualifier.storage = EvqInOut;
}

| IN {
  parseContext.globalCheck($1.loc, "in");
  $$init($1.loc);
  // whether this is a parameter "in" or a pipeline "in" will get sorted out a bit later
  $$qualifier.storage = EvqIn;
}

| OUT {
  parseContext.globalCheck($1.loc, "out");
  $$init($1.loc);
  // whether this is a parameter "out" or a pipeline "out" will get sorted out a bit later
  $$qualifier.storage = EvqOut;
}

| CENTROID {
parseContext.profileRequires($1.loc, ENoProfile, 120, 0, "centroid");
parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "centroid");
parseContext.globalCheck($1.loc, "centroid");
$$$.init($1.loc);
$$.qualifier.centroid = true;
}
| PATCH {
  parseContext.globalCheck($1.loc, "patch");
  parseContext.requireStage($1.loc, (EShLanguageMask)(EShLangTessControlMask | EShLangTessEvaluationMask), "patch");
  $$$.init($1.loc);
  $$.qualifier.patch = true;
}
| SAMPLE {
  parseContext.globalCheck($1.loc, "sample");
  $$$.init($1.loc);
  $$.qualifier.sample = true;
}
| UNIFORM {
  parseContext.globalCheck($1.loc, "uniform");
  $$$.init($1.loc);
  $$.qualifier.storage = EvqUniform;
}
| BUFFER {
  parseContext.globalCheck($1.loc, "buffer");
  $$$.init($1.loc);
  $$.qualifier.storage = EvqBuffer;
}
| SHARED {
  parseContext.globalCheck($1.loc, "shared");
  parseContext.profileRequires($1.loc, ECoreProfile | ECompatibilityProfile, 430, E_GL_ARB_compute_shader, "shared");
  parseContext.profileRequires($1.loc, EEsProfile, 310, 0, "shared");
  parseContext.requireStage($1.loc, EShLangCompute, "shared");
  $$$.init($1.loc);
  $$.qualifier.storage = EvqShared;
}
| COHERENT {
  $$$.init($1.loc);
  $$.qualifier.coherent = true;
}
| VOLATILE {
  $$$.init($1.loc);
  $$.qualifier.volatil = true;
}
| RESTRICT {
  $$$.init($1.loc);
  $$.qualifier.restrict = true;
}
READONLY {
$$.init($1.loc);
$$\.qualifier\.readonly = true;
}

WRITEONLY {
$$\.init($1\.loc);
$$\.qualifier\.writeonly = true;
}

SUBROUTINE {
parseContext\.spvRemoved($1\.loc, "subroutine");
parseContext\.globalCheck($1\.loc, "subroutine");
parseContext\.unimplemented($1\.loc, "subroutine");
$$\.init($1\.loc);
}

SUBROUTINE LEFT_PAREN type_name_list RIGHT_PAREN {
parseContext\.spvRemoved($1\.loc, "subroutine");
parseContext\.globalCheck($1\.loc, "subroutine");
parseContext\.unimplemented($1\.loc, "subroutine");
$$\.init($1\.loc);
}

;

type_name_list :
IDENTIFIER {
    // TODO
}

type_name_list COMMA IDENTIFIER {
    // TODO: 4.0 semantics: subroutines
    // 1) make sure each identifier is a type declared earlier with SUBROUTINE
    // 2) save all of the identifiers for future comparison with the declared function
}

;

type_specifier :
type_specifier_nonarray {
    $$ = $1;
    $$\.qualifier\.precision = parseContext\.getDefaultPrecision($$);
}

type_specifier_nonarray array_specifier {
parseContext\.arrayDimCheck($2\.loc, $2\.arraySizes, 0);
$$ = $1;
$$\.qualifier\.precision = parseContext\.getDefaultPrecision($$);
$$\.arraySizes = $2\.arraySizes;
}

;

array_specifier
LEFT_BRACKET RIGHT_BRACKET {
  $$\text{loc} = $1.\text{loc};
  $$\text{arraySizes} = \text{new TArraySizes};
  $$\text{arraySizes->addInnerSize();}
}

LEFT_BRACKET conditional_expression RIGHT_BRACKET {
  $$\text{loc} = $1.\text{loc};
  $$\text{arraySizes} = \text{new TArraySizes};

  TArraySize size;
  parseContext.arraySizeCheck($2->\text{getLoc()}, $2, size);
  $$\text{arraySizes->addInnerSize(size);}
}

array_specifier LEFT_BRACKET RIGHT_BRACKET {
  $$ = $1;
  $$\text{arraySizes->addInnerSize();}
}

array_specifier LEFT_BRACKET conditional_expression RIGHT_BRACKET {
  $$ = $1;

  TArraySize size;
  parseContext.arraySizeCheck($3->\text{getLoc()}, $3, size);
  $$\text{arraySizes->addInnerSize(size);}
}

type_specifier_nonarray

VOID {
  $$\text{init}($1.\text{loc}, \text{parseContext.symbolTable.atGlobalLevel()});
  $$\text{basicType} = \text{EbtVoid};
}

FLOAT {
  $$\text{init}($1.\text{loc}, \text{parseContext.symbolTable.atGlobalLevel()});
  $$\text{basicType} = \text{EbtFloat};
}

DOUBLE {
  \text{parseContext.doubleCheck($1.\text{loc}, \text{"double"});}
  $$\text{init}($1.\text{loc}, \text{parseContext.symbolTable.atGlobalLevel()});
  $$\text{basicType} = \text{EbtDouble};
}

FLOAT16_T {
  \text{parseContext.float16Check($1.\text{loc}, \text{"float16_t"}, \text{parseContext.symbolTable.atBuiltInLevel()});}
  $$\text{init}($1.\text{loc}, \text{parseContext.symbolTable.atGlobalLevel()});
  $$\text{basicType} = \text{EbtFloat16};
}

FLOAT32_T {
  \text{parseContext.explicitFloat32Check($1.\text{loc}, \text{"float32_t"}, \text{parseContext.symbolTable.atBuiltInLevel()});}
  $$\text{init}($1.\text{loc}, \text{parseContext.symbolTable.atGlobalLevel()});
}
```c
$$.basicType = EbtFloat;
}
| FLOAT64_T {
    parseContext.explicitFloat64Check($1.loc, "float64_t", parseContext.symbolTable.atBuiltInLevel());
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtDouble;
}
| INT {
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtInt;
}
| UINT {
    parseContext.fullIntegerCheck($1.loc, "unsigned integer");
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtUint;
}
| INT8_T {
    parseContext.explicitInt8Check($1.loc, "8-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtInt8;
}
| UINT8_T {
    parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtUint8;
}
| INT16_T {
    parseContext.explicitInt16Check($1.loc, "16-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtInt16;
}
| UINT16_T {
    parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtUint16;
}
| INT32_T {
    parseContext.explicitInt32Check($1.loc, "32-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtInt;
}
| UINT32_T {
    parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
    $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$$.basicType = EbtUint;
}
```
| INT64_T { |
| parseContext.int64Check($1.loc, "64-bit integer", parseContext.symbolTable.atBuiltInLevel()); |
| $$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$basicType = EbtInt64; |
| } |

| UINT64_T { |
| parseContext.int64Check($1.loc, "64-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel()); |
| $$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$basicType = EbtUint64; |
| } |

| BOOL { |
| $$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$basicType = EbtBool; |
| } |

| VEC2 { |
| $$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$basicType = EbtFloat; |
| $$setVector(2); |
| } |

| VEC3 { |
| $$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$basicType = EbtFloat; |
| $$setVector(3); |
| } |

| VEC4 { |
| $$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$basicType = EbtFloat; |
| $$setVector(4); |
| } |

| DVEC2 { |
| parseContext.doubleCheck($1.loc, "double vector"); |
| $$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$basicType = EbtDouble; |
| $$setVector(2); |
| } |

| DVEC3 { |
| parseContext.doubleCheck($1.loc, "double vector"); |
| $$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$basicType = EbtDouble; |
| $$setVector(3); |
| } |

| DVEC4 { |
| parseContext.doubleCheck($1.loc, "double vector"); |
| $$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$basicType = EbtDouble; |
| $$setVector(4); |
| } |

| F16VEC2 { |
parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtFloat16;
$$.$setVector(2);
}
| F16VEC3 |
parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtFloat16;
$$.$setVector(3);
}
| F16VEC4 |
parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtFloat16;
$$.$setVector(4);
}
| F32VEC2 |
parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtFloat;
$$.$setVector(2);
}
| F32VEC3 |
parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtFloat;
$$.$setVector(3);
}
| F32VEC4 |
parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtFloat;
$$.$setVector(4);
}
| F64VEC2 |
parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtDouble;
$$.$setVector(2);
}
| F64VEC3 |
parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtDouble;
$$.$setVector(3);
}
| F64VEC4 |
parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtDouble;
$$$.setVector(4);
}
| BVEC2 |
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtBool;
$$$.setVector(2);
}
| BVEC3 |
 $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtBool;
$$$.setVector(3);
}
| BVEC4 |
 $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtBool;
$$$.setVector(4);
}
| IVEC2 |
 $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtInt;
$$$.setVector(2);
}
| IVEC3 |
 $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtInt;
$$$.setVector(3);
}
| IVEC4 |
 $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtInt;
$$$.setVector(4);
}
| I8VEC2 |
parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtInt8;
$$$.setVector(2);
}
| I8VEC3 |
parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtInt8;
$$$.setVector(3);
}
| I8VEC4 |
parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtInt8;
$.setVector(4);
}

| I16VEC2 {  
parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtInt16;
$.setVector(2);
}

| I16VEC3 {  
parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtInt16;
$.setVector(3);
}

| I16VEC4 {  
parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtInt16;
$.setVector(4);
}

| I32VEC2 {  
parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtInt;
$.setVector(2);
}

| I32VEC3 {  
parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtInt;
$.setVector(3);
}

| I32VEC4 {  
parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtInt;
$.setVector(4);
}

| I64VEC2 {  

parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtInt64;
$$$.setVector(2);
}
| I64VEC3 {
parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtInt64;
$$$.setVector(3);
}
| I64VEC4 {
parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtInt64;
$$$.setVector(4);
}
| UVEC2 {
parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtUint;
$$$.setVector(2);
}
| UVEC3 {
parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtUint;
$$$.setVector(3);
}
| UVEC4 {
parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtUint;
$$$.setVector(4);
}
| U8VEC2 {
parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtUint8;
$$$.setVector(2);
}
| U8VEC3 {
parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtInt8;
$$$.setVector(3);
| U8VEC4 { |
| parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector", |
| parseContext.symbolTable.atBuiltInLevel()); |
| $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$.$basicType = EbtUint8; |
| $$.$setVector(4); |
| }
| U16VEC2 { |
| parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector", |
| parseContext.symbolTable.atBuiltInLevel()); |
| $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$.$basicType = EbtUint16; |
| $$.$setVector(2); |
| }
| U16VEC3 { |
| parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector", |
| parseContext.symbolTable.atBuiltInLevel()); |
| $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
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| $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$.$basicType = EbtUint; |
| $$.$setVector(3); |
| }
| U32VEC4 { |
| parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector", |
| parseContext.symbolTable.atBuiltInLevel()); |
| $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel()); |
| $$.$basicType = EbtUint; |
$$.setVector(4);
}

<table>
<thead>
<tr>
<th>U64VEC2</th>
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<tbody>
<tr>
<td>parseContext.int64Check($1.loc, &quot;64-bit unsigned integer vector&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
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<tbody>
<tr>
<td>$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$$$.basicType = EbtFloat;</td>
</tr>
<tr>
<td>$$$.setMatrix(2, 2);</td>
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</table>
$$.setMatrix(2, 4);
}

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<tr>
<th>MAT3X2</th>
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</table>
| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$basicType = EbtFloat;
| $$setMatrix(3, 2);
<p>|</p>
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<th>MAT3X3</th>
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</thead>
</table>
| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$basicType = EbtFloat;
| $$setMatrix(3, 3);
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<th>MAT3X4</th>
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</thead>
</table>
| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$basicType = EbtFloat;
| $$setMatrix(3, 4);
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<th>MAT4X2</th>
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| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$basicType = EbtFloat;
| $$setMatrix(4, 2);
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| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$basicType = EbtFloat;
| $$setMatrix(4, 3);
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| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$basicType = EbtFloat;
| $$setMatrix(4, 4);
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</table>
| parseContext.doubleCheck($1.loc, "double matrix");
| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$basicType = EbtDouble;
| $$setMatrix(2, 2);
<p>|</p>
<table>
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<tr>
<th>DMAT3</th>
</tr>
</thead>
</table>
| parseContext.doubleCheck($1.loc, "double matrix");
| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$basicType = EbtDouble;
| $$setMatrix(3, 3);
<p>|</p>
<table>
<thead>
<tr>
<th>DMAT4</th>
</tr>
</thead>
</table>
| parseContext.doubleCheck($1.loc, "double matrix");
| $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$basicType = EbtDouble;
```java
$.setMatrix(4, 4);
}
| DMAT2X2 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtDouble;
    $.setMatrix(2, 2);
}
| DMAT2X3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtDouble;
    $.setMatrix(2, 3);
}
| DMAT2X4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtDouble;
    $.setMatrix(2, 4);
}
| DMAT3X2 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtDouble;
    $.setMatrix(3, 2);
}
| DMAT3X3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtDouble;
    $.setMatrix(3, 3);
}
| DMAT3X4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtDouble;
    $.setMatrix(3, 4);
}
| DMAT4X2 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtDouble;
    $.setMatrix(4, 2);
}
| DMAT4X3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtDouble;
```
```javascript
$.setMatrix(4, 3);
}
| DMAT4X4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtDouble;
    $.setMatrix(4, 4);
}
| F16MAT2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtFloat16;
    $.setMatrix(2, 2);
}
| F16MAT3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtFloat16;
    $.setMatrix(3, 3);
}
| F16MAT4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtFloat16;
    $.setMatrix(4, 4);
}
| F16MAT2X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtFloat16;
    $.setMatrix(2, 2);
}
| F16MAT2X3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtFloat16;
    $.setMatrix(2, 3);
}
| F16MAT2X4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtFloat16;
    $.setMatrix(2, 4);
}
| F16MAT3X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $.basicType = EbtFloat16;
```
$$.setMatrix(3, 2);
}

<table>
<thead>
<tr>
<th>F16MAT3X3</th>
</tr>
</thead>
</table>
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtFloat16;
| $$$.setMatrix(3, 3); |

<table>
<thead>
<tr>
<th>F16MAT3X4</th>
</tr>
</thead>
</table>
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtFloat16;
| $$$.setMatrix(3, 4); |

<table>
<thead>
<tr>
<th>F16MAT4X2</th>
</tr>
</thead>
</table>
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtFloat16;
| $$$.setMatrix(4, 2); |

<table>
<thead>
<tr>
<th>F16MAT4X3</th>
</tr>
</thead>
</table>
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtFloat16;
| $$$.setMatrix(4, 3); |

<table>
<thead>
<tr>
<th>F16MAT4X4</th>
</tr>
</thead>
</table>
| parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtFloat16;
| $$$.setMatrix(4, 4); |

<table>
<thead>
<tr>
<th>F32MAT2</th>
</tr>
</thead>
</table>
| parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtFloat;
| $$$.setMatrix(2, 2); |

<table>
<thead>
<tr>
<th>F32MAT3</th>
</tr>
</thead>
</table>
| parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtFloat;
| $$$.setMatrix(3, 3); |

<table>
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| parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtFloat; |
F32MAT2X2 
|parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
|$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
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F32MAT2X3 
|parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
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}
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<tr>
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<td>parseContext.explicitFloat32Check($1.loc, &quot;float32_t matrix&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
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<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtFloat;</td>
</tr>
<tr>
<td>$.setMatrix(4, 4);</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>F64MAT2</td>
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<tr>
<td>---</td>
</tr>
<tr>
<td>parseContext.explicitFloat64Check($1.loc, &quot;float64_t matrix&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
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<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtDouble;</td>
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<tr>
<td>$.setMatrix(2, 2);</td>
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<tr>
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</tr>
<tr>
<td>F64MAT3</td>
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<tr>
<td>parseContext.explicitFloat64Check($1.loc, &quot;float64_t matrix&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
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<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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<tr>
<td>$.basicType = EbtDouble;</td>
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<tr>
<td>$.setMatrix(3, 3);</td>
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<td>F64MAT4</td>
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<tr>
<td>$.basicType = EbtDouble;</td>
</tr>
<tr>
<td>$.setMatrix(4, 4);</td>
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<tr>
<td>F64MAT2X2</td>
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<tr>
<td>parseContext.explicitFloat64Check($1.loc, &quot;float64_t matrix&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
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<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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<tr>
<td>$.basicType = EbtDouble;</td>
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<tr>
<td>$.setMatrix(2, 2);</td>
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<tr>
<td>F64MAT2X3</td>
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<td>parseContext.explicitFloat64Check($1.loc, &quot;float64_t matrix&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
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<td>F64MAT2X4</td>
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<tr>
<td>$.setMatrix(2, 4);</td>
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<tr>
<td>F64MAT3X2</td>
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<tr>
<td>parseContext.explicitFloat64Check($1.loc, &quot;float64_t matrix&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
</tr>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtDouble;</td>
</tr>
</tbody>
</table>
```c
$.setMatrix(3, 2);

<table>
<thead>
<tr>
<th>F64MAT3X3</th>
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<tbody>
<tr>
<td>parseContext.explicitFloat64Check($1.loc, &quot;float64_t matrix&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
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<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtDouble;</td>
</tr>
<tr>
<td>$.setMatrix(3, 3);</td>
</tr>
</tbody>
</table>

<table>
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<tbody>
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<td>parseContext.explicitFloat64Check($1.loc, &quot;float64_t matrix&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
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<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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<tr>
<td>$.basicType = EbtDouble;</td>
</tr>
<tr>
<td>$.setMatrix(3, 4);</td>
</tr>
</tbody>
</table>

<table>
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<th>F64MAT4X2</th>
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<tbody>
<tr>
<td>parseContext.explicitFloat64Check($1.loc, &quot;float64_t matrix&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
</tr>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtDouble;</td>
</tr>
<tr>
<td>$.setMatrix(4, 2);</td>
</tr>
</tbody>
</table>

<table>
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<th>F64MAT4X3</th>
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<tbody>
<tr>
<td>parseContext.explicitFloat64Check($1.loc, &quot;float64_t matrix&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
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<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtDouble;</td>
</tr>
<tr>
<td>$.setMatrix(4, 3);</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F64MAT4X4</th>
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</thead>
<tbody>
<tr>
<td>parseContext.explicitFloat64Check($1.loc, &quot;float64_t matrix&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
</tr>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtDouble;</td>
</tr>
<tr>
<td>$.setMatrix(4, 4);</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ATOMIC_UINT</th>
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</thead>
<tbody>
<tr>
<td>parseContext.vulkanRemoved($1.loc, &quot;atomic counter types&quot;);</td>
</tr>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtAtomicUint;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SAMPLER1D</th>
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</thead>
<tbody>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtFloat, Esd1D);</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SAMPLER2D</th>
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</thead>
<tbody>
<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
</tr>
<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.set(EbtFloat, Esd2D);</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SAMPLER3D</th>
</tr>
</thead>
</table>
```
```java
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.set(EbtFloat, Esd3D);
}
| SAMPLERCUBE {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat, EsdCube);
}
| SAMPLER1DSHADOW {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat, Esd1D, false, true);
}
| SAMPLER2DSHADOW {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat, Esd2D, false, true);
}
| SAMPLERCUBESHADOW {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat, EsdCube, false, true);
}
| SAMPLER1DARRAY {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat, Esd1D, true);
}
| SAMPLER2DARRAY {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat, Esd2D, true);
}
| SAMPLER1DARRAYSHADOW {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat, Esd1D, true, true);
}
| SAMPLER2DARRAYSHADOW {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat, Esd2D, true, true);
}
| SAMPLERCUBEARRAY {
  $.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $.basicType = EbtSampler;
  $.sampler.set(EbtFloat, EsdCube, true);
```
<table>
<thead>
<tr>
<th>CLASS</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>$$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$.basicType = EbtSampler; $$.sampler.set(EbtFloat, EsdCube, true, true);</td>
<td></td>
</tr>
<tr>
<td>F16SAMPLER1D</td>
<td>#ifdef AMD_EXTENSIONS &lt;br&gt;parseContext.float16OpaqueCheck($1.loc, &quot;half float sampler&quot;, parseContext.symbolTable.atBuiltInLevel()); $$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$.basicType = EbtSampler; $$.sampler.set(EbtFloat16, Esd1D); #endif</td>
</tr>
<tr>
<td>F16SAMPLER2D</td>
<td>#ifdef AMD_EXTENSIONS &lt;br&gt;parseContext.float16OpaqueCheck($1.loc, &quot;half float sampler&quot;, parseContext.symbolTable.atBuiltInLevel()); $$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$.basicType = EbtSampler; $$.sampler.set(EbtFloat16, Esd2D); #endif</td>
</tr>
<tr>
<td>F16SAMPLER3D</td>
<td>#ifdef AMD_EXTENSIONS &lt;br&gt;parseContext.float16OpaqueCheck($1.loc, &quot;half float sampler&quot;, parseContext.symbolTable.atBuiltInLevel()); $$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$.basicType = EbtSampler; $$.sampler.set(EbtFloat16, Esd3D); #endif</td>
</tr>
<tr>
<td>F16SAMPLERCUBE</td>
<td>#ifdef AMD_EXTENSIONS &lt;br&gt;parseContext.float16OpaqueCheck($1.loc, &quot;half float sampler&quot;, parseContext.symbolTable.atBuiltInLevel()); $$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$.basicType = EbtSampler; $$.sampler.set(EbtFloat16, EsdCube); #endif</td>
</tr>
<tr>
<td>F16SAMPLER1DSHADOW</td>
<td>#ifdef AMD_EXTENSIONS &lt;br&gt;parseContext.float16OpaqueCheck($1.loc, &quot;half float sampler&quot;, parseContext.symbolTable.atBuiltInLevel()); $$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$.basicType = EbtSampler; $$.sampler.set(EbtFloat16, Esd1D, false, true); #endif</td>
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<tr>
<td>F16SAMPLER2DSHADOW</td>
<td>#ifdef AMD_EXTENSIONS &lt;br&gt;parseContext.float16OpaqueCheck($1.loc, &quot;half float sampler&quot;, parseContext.symbolTable.atBuiltInLevel()); $$.init($1.loc, parseContext.symbolTable.atGlobalLevel()); $$.basicType = EbtSampler; $$.sampler.set(EbtFloat16, Esd2D); #endif</td>
</tr>
</tbody>
</table>
parseInt.float16OpaqueCheck($1.loc, "half float sampler", parseInt.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseInt.symbolTable.atGlobalLevel());
$$.basicType = EbtSampler;
$$.sampler.set(EbtFloat16, Esd2D, false, true);
#endif
}
| F16SAMPLERCUBESHADOW {
#ifdef AMD_EXTENSIONS
parseInt.float16OpaqueCheck($1.loc, "half float sampler", parseInt.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseInt.symbolTable.atGlobalLevel());
$$.basicType = EbtSampler;
$$.sampler.set(EbtFloat16, EsdCube, false, true);
#endif
}
| F16SAMPLER1DARRAY {
#ifdef AMD_EXTENSIONS
parseInt.float16OpaqueCheck($1.loc, "half float sampler", parseInt.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseInt.symbolTable.atGlobalLevel());
$$.basicType = EbtSampler;
$$.sampler.set(EbtFloat16, Esd1D, true);
#endif
}
| F16SAMPLER2DARRAY {
#ifdef AMD_EXTENSIONS
parseInt.float16OpaqueCheck($1.loc, "half float sampler", parseInt.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseInt.symbolTable.atGlobalLevel());
$$.basicType = EbtSampler;
$$.sampler.set(EbtFloat16, Esd2D, true);
#endif
}
| F16SAMPLER1DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
parseInt.float16OpaqueCheck($1.loc, "half float sampler", parseInt.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseInt.symbolTable.atGlobalLevel());
$$.basicType = EbtSampler;
$$.sampler.set(EbtFloat16, Esd1D, true, true);
#endif
}
| F16SAMPLER2DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
parseInt.float16OpaqueCheck($1.loc, "half float sampler", parseInt.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseInt.symbolTable.atGlobalLevel());
$$.basicType = EbtSampler;
$$.sampler.set(EbtFloat16, Esd2D, true, true);
#endif
}
| F16SAMPLERCUBEARRAY {
#ifdef AMD_EXTENSIONS
parseInt.float16OpaqueCheck($1.loc, "half float sampler", parseInt.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseInt.symbolTable.atGlobalLevel());
$$.basicType = EbtSampler;
$$.sampler.set(EbtFloat16, EsdCube, false, true);
#endif
}
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$basicType = EbtSampler;
$$.$sampler.set(EbtFloat16, EsdCube, true);
#endif

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</table>
USAMPLER1D {
  $$\text{init}(1, \text{symbolTable.atGlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler.set}(\text{EbtUint}, \text{Esd1D});
}

USAMPLER2D {
  $$\text{init}(1, \text{symbolTable.atGlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler.set}(\text{EbtUint}, \text{Esd2D});
}

USAMPLER3D {
  $$\text{init}(1, \text{symbolTable.atGlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler.set}(\text{EbtUint}, \text{Esd3D});
}

USAMPLERCUBE {
  $$\text{init}(1, \text{symbolTable.atGlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler.set}(\text{EbtUint}, \text{EsdCube});
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}

USAMPLER2DARRAY {
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  $$\text{sampler.set}(\text{EbtUint}, \text{Esd2D}, \text{true});
}

USAMPLERCUBEARRAY {
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  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler.set}(\text{EbtUint}, \text{EsdCube}, \text{true});
}

SAMPLER2DRECT {
  $$\text{init}(1, \text{symbolTable.atGlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler.set}(\text{EbtFloat}, \text{EsdRect});
}

SAMPLER2DRECTSHADOW {
  $$\text{init}(1, \text{symbolTable.atGlobalLevel}());
  $$\text{basicType} = \text{EbtSampler};
  $$\text{sampler.set}(\text{EbtFloat}, \text{EsdRect}, \text{false}, \text{true});
}

F16SAMPLER2DRECT {
  #ifdef AMD_EXTENSIONS

parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$.$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$$.basicType = EbtSampler;
$$.$$.sampler.set(EbtFloat16, EsdRect);
#endif
}
| F16SAMPLER2DRECTSHADOW {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$.$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$$.basicType = EbtSampler;
$$.$$.sampler.set(EbtFloat16, EsdRect, false, true);
#endif
}
| ISAMPLER2DRECT {
$$.$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$$.basicType = EbtSampler;
$$.$$.sampler.set(EbtInt, EsdRect);
}
| USAMPLER2DRECT {
$$.$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$$.basicType = EbtSampler;
$$.$$.sampler.set(EbtUint, EsdRect);
}
| SAMPLERBUFFER {
$$.$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$$.basicType = EbtSampler;
$$.$$.sampler.set(EbtFloat, EsdBuffer);
}
| F16SAMPLERBUFFER {
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$.$$.init($1.loc, parseContext.symbolTable.atBuiltInLevel());
$$.$$.basicType = EbtSampler;
$$.$$.sampler.set(EbtFloat16, EsdBuffer);
#endif
}
| ISAMPLERBUFFER {
$$.$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$$.basicType = EbtSampler;
$$.$$.sampler.set(EbtInt, EsdBuffer);
}
| USAMPLERBUFFER {
$$.$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$.$$.basicType = EbtSampler;
$$.$$.sampler.set(EbtUint, EsdBuffer);
}
| SAMPLER2DMS {
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.set(EbtFloat, Esd2D, false, false, true);
}
| F16SAMPLER2DMS {
#endif
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.set(EbtFloat16, Esd2D, false, false, true);
#endif
}
| ISAMPLER2DMS {
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.set(EbInt, Esd2D, false, false, true);
}
| USAMPLER2DMS {
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.set(EbUint, Esd2D, false, false, true);
}
| SAMPLER2DMSARRAY {
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.set(EbtFloat, Esd2D, true, false, true);
}
| F16SAMPLER2DMSARRAY {
#ifndef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
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| USAMPLER2DMSARRAY {
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.set(EbUint, Esd2D, true, false, true);
}
| SAMPLER {
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$\$.sampler.setPureSampler(false);
}

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<td>$$$.sampler.setTexture(EbtFloat, Esd1D);</td>
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</table>
```cpp
$$.basicType = EbtSampler;
$$.sampler.setTexture(EbtFloat, EsdCube);
}
}

| F16TEXTURECUBE { #ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, EsdCube);
    #endif
    }

| TEXTURE1DARRAY { $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, Esd1D, true);
    }

| F16TEXTURE1DARRAY { #ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
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    #endif
    }

| TEXTURE2DARRAY { $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
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| F16TEXTURE2DARRAY { #ifdef AMD_EXTENSIONS
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| F16TEXTURECUBEARRAY { #ifdef AMD_EXTENSIONS
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    }
```
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| UTEXTURE3D |
$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.setTexture(EbtUint, Esd3D);
}
| UTEXTURECUBE |
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.setTexture(EbtUint, EsdCube);
}
| UTEXTURE1DARRAY |
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.setTexture(EbtUint, Esd1D, true);
}
| UTEXTURE2DARRAY |
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.setTexture(EbtUint, Esd2D, true);
}
| UTEXTURECUBEARRAY |
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.setTexture(EbtUint, EsdCube, true);
}
| TEXTURE2DRECT |
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.setTexture(EbtFloat, EsdRect);
}
| F16TEXTURE2DRECT |
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.setTexture(EbtFloat16, EsdRect);
#endif
}
| ITEXTURE2DRECT |
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.setTexture(EbtInt, EsdRect);
}
| UTEXTURE2DRECT |
$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$basicType = EbtSampler;
$$sampler.setTexture(EbtUint, EsdRect);
}
| TEXTUREBUFFER |

$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.setTexture(EbtFloat, EsdBuffer);
}

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<td>$.sampler.setTexture(EbtFloat16, EsdBuffer);</td>
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<td>$.sampler.setTexture(EbtInt, EsdBuffer);</td>
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<tr>
<td>$.basicType = EbtSampler;</td>
</tr>
<tr>
<td>$.sampler.setTexture(EbtFloat, Esd2D, false, false, true);</td>
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<th>F16TEXTURE2DMS</th>
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<tr>
<td>ifdef AMD_EXTENSIONS</td>
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<tr>
<td>parseContext.float16OpaqueCheck($1.loc, &quot;half float texture&quot;, parseContext.symbolTable.atBuiltInLevel());</td>
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<tr>
<td>$.init($1.loc, parseContext.symbolTable.atGlobalLevel());</td>
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<tr>
<td>$.basicType = EbtSampler;</td>
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<td>$.sampler.setTexture(EbtFloat16, Esd2D, false, false, true);</td>
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<td>$.basicType = EbtSampler;</td>
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</table>
$.sampler.setTexture(EbtFloat, Esd2D, true, false, true);
}

<table>
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<th>F16TEXTURE2DMSARRAY</th>
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</table>

```c
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.setTexture(EbtFloat16, Esd2D, true, false, true);
#endif
```

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```c
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.setTexture(EbtInt, Esd2D, true, false, true);
```

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```c
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.setTexture(EbtUint, Esd2D, true, false, true);
```

<table>
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<tr>
<th>IMAGE1D</th>
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</table>

```c
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.setImage(EbtFloat, Esd1D);
```

<table>
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<th>F16IMAGE1D</th>
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</table>

```c
#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.setImage(EbtFloat16, Esd1D);
#endif
```

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```c
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.setImage(EbtInt, Esd1D);
```

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```c
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.setImage(EbtUint, Esd1D);
```

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<tr>
<th>IMAGE2D</th>
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</table>

```c
$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$.basicType = EbtSampler;
$.sampler.setImage(EbtFloat, Esd2D);
```
```c
| F16IMAGE2D {
#ifdef AMD_EXTENSIONS
   parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
   $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$$.basicType = EbtSampler;
   $$$.sampler.setImage(EbtFloat16, Esd2D);
#endif
}

| IMAGE2D {
   $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$$.basicType = EbtSampler;
   $$$.sampler.setImage(EbtInt, Esd2D);
}

| UIMAGE2D {
   $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$$.basicType = EbtSampler;
   $$$.sampler.setImage(EbtUint, Esd2D);
}

| IMAGE3D {
   $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$$.basicType = EbtSampler;
   $$$.sampler.setImage(EbtFloat, Esd3D);
}

| F16IMAGE3D {
#ifdef AMD_EXTENSIONS
   parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
   $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$$.basicType = EbtSampler;
   $$$.sampler.setImage(EbtFloat16, Esd3D);
#endif
}

| IMAGE3D {
   $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$$.basicType = EbtSampler;
   $$$.sampler.setImage(EbtInt, Esd3D);
}

| UIMAGE3D {
   $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$$.basicType = EbtSampler;
   $$$.sampler.setImage(EbtUint, Esd3D);
}

| IMAGE2DRECT {
   $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$$.basicType = EbtSampler;
   $$$.sampler.setImage(EbtFloat, EsdRect);
}

| F16IMAGE2DRECT {
#ifdef AMD_EXTENSIONS
   parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
   $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$$.basicType = EbtSampler;
   $$$.sampler.setImage(EbtFloat16, EsdRect);
#endif
}
```
parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat16, EsdRect);
#endif
}

<table>
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</table>
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtSampler;
| $$$.sampler.setImage(EbtInt, EsdRect); |

<table>
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<th>UIMAGE2DRECT</th>
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</table>
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtSampler;
| $$$.sampler.setImage(EbtUint, EsdRect); |

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<th>IMAGECUBE</th>
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</table>
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtSampler;
| $$$.sampler.setImage(EbtFloat, EsdCube); |

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<th>F16IMAGECUBE</th>
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</table>
| #ifdef AMD_EXTENSIONS
| parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtSampler;
| $$$.sampler.setImage(EbtFloat16, EsdCube); |
| #endif
|

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</table>
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtSampler;
| $$$.sampler.setImage(EbtFloat, EsdBuffer); |

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| #ifdef AMD_EXTENSIONS
| parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
| $$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
| $$$.basicType = EbtSampler;
| $$$.sampler.setImage(EbtFloat16, EsdBuffer); |
| #endif
|
$$.basicType = EbtSampler;
$$.sampler.setImage(EbtFloat16, EsdBuffer);
#endif
}

| IMAGEBUFFER {

$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtInt, EsdBuffer);
}

| UIMAGEBUFFER {

$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtUint, EsdBuffer);
}

| IMAGE1DARRAY {

$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat, Esd1D, true);
}

| F16IMAGE1DARRAY {

#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat16, Esd1D, true);
#endif
}

| IMAGE1DARRAY {

$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtInt, Esd1D, true);
}

| UIMAGE1DARRAY {

$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtUint, Esd1D, true);
}

| IMAGE2DARRAY {

$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat, Esd2D, true);
}

| F16IMAGE2DARRAY {

#ifdef AMD_EXTENSIONS
parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
$$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
$$$.basicType = EbtSampler;
$$$.sampler.setImage(EbtFloat16, Esd2D, true);
#endif
}
#endif

| IIMAGE2DARRAY {
|   $$\text{init}(\text{parseContext}.symbolTable.atGlobalLevel());
|   $$\text{basicType} = \text{EbtSampler};
|   $$\text{sampler}.setImage(\text{EbtInt}, \text{Esd2D}, \text{true});
| }

| UIMAGE2DARRAY {
|   $$\text{init}(\text{parseContext}.symbolTable.atGlobalLevel());
|   $$\text{basicType} = \text{EbtSampler};
|   $$\text{sampler}.setImage(\text{EbtUint}, \text{Esd2D}, \text{true});
| }

| IMAGECUBEARRAY {
|   $$\text{init}(\text{parseContext}.symbolTable.atGlobalLevel());
|   $$\text{basicType} = \text{EbtSampler};
|   $$\text{sampler}.setImage(\text{EbtInt}, \text{EsdCube}, \text{true});
| }

| F16IMAGECUBEARRAY {
| #ifdef AMD_EXTENSIONS
|   parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
|   $$\text{init}(\text{parseContext}.symbolTable.atGlobalLevel());
|   $$\text{basicType} = \text{EbtSampler};
|   $$\text{sampler}.setImage(\text{EbtFloat16}, \text{EsdCube}, \text{true});
| #endif
| }

| IIMAGECUBEARRAY {
|   $$\text{init}(\text{parseContext}.symbolTable.atGlobalLevel());
|   $$\text{basicType} = \text{EbtSampler};
|   $$\text{sampler}.setImage(\text{EbtInt}, \text{EsdCube}, \text{true});
| }

| UIMAGECUBEARRAY {
|   $$\text{init}(\text{parseContext}.symbolTable.atGlobalLevel());
|   $$\text{basicType} = \text{EbtSampler};
|   $$\text{sampler}.setImage(\text{EbtUint}, \text{EsdCube}, \text{true});
| }

| IMAGE2DMS {
|   $$\text{init}(\text{parseContext}.symbolTable.atGlobalLevel());
|   $$\text{basicType} = \text{EbtSampler};
|   $$\text{sampler}.setImage(\text{EbtFloat}, \text{Esd2D}, \text{false}, \text{false}, \text{true});
| }

| F16IMAGE2DMS {
| #ifdef AMD_EXTENSIONS
|   parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
|   $$\text{init}(\text{parseContext}.symbolTable.atGlobalLevel());
|   $$\text{basicType} = \text{EbtSampler};
|   $$\text{sampler}.setImage(\text{EbtFloat16}, \text{Esd2D}, \text{false}, \text{false}, \text{true});
| #endif
| }

```
IMAGE2DMS {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, Esd2D, false, false, true);
}

IMAGE2DMS {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, Esd2D, false, false, true);
}

IMAGE2DMSARRAY {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat, Esd2D, true, false, true);
}

F16IMAGE2DMSARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, Esd2D, true, false, true);
#endif
}

IIMAGE2DMSARRAY {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, Esd2D, true, false, true);
}

UIMAGE2DMSARRAY {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, Esd2D, true, false, true);
}

SAMPLEREXTERNALOES { // GL_OES_EGL_image_external
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, Esd2D);
    $$sampler.external = true;
}

SUBPASSINPUT {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setSubpass(EbtFloat);
}

SUBPASSINPUTMS {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
}
$$\text{basicType} = \text{EbtSampler};$
$$\text{sampler.setSubpass(EbtFloat, true);}$$
$$s = 1;$$
$$s$.qualifier.storage = parseContext.symbolTable.atGlobalLevel() ? EvqGlobal : EvqTemporary;
parseContext.structTypeCheck($$.loc, $$);
}

| TYPE_NAME |
//
// This is for user defined type names. The lexical phase looked up the
// type.
//
if (const TVariable* variable = ($1.symbol)->getAsVariable()) {
    const TType& structure = variable->getType();
    $$s$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$s$.basicType = EbtStruct;
    $$s$.userDef = &structure;
} else {
    parseContext.error($1.loc, "expected type name", $1.string->c_str(), "");
}

precision_qualifier

| HIGH_PRECISION |
parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "highp precision qualifier");
$$s$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
parseContext.handlePrecisionQualifier($1.loc, $$s$.qualifier, EpqHigh);
|
| MEDIUM_PRECISION |
parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "mediump precision qualifier");
$$s$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
parseContext.handlePrecisionQualifier($1.loc, $$s$.qualifier, EpqMedium);
|
| LOW_PRECISION |
parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "lowp precision qualifier");
$$s$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
parseContext.handlePrecisionQualifier($1.loc, $$s$.qualifier, EpqLow);
|

struct_specifier

| STRUCT IDENTIFIER LEFT_BRACE |
parseContext.nestedStructCheck($1.loc);
| struct_declaration_list
RIGHT_BRACE |

TTYpe* structure = new TTYpe($5, *$2.string);
parseContext.structArrayCheck($2.loc, *structure);
TTYpe* userTypeDef = new TTYpe($2.string, *structure, true);
if (! parseContext.symbolTable.insert(*userTypeDef))
    parseContext.error($2.loc, "redefinition", $2.string->c_str(), "structure");
$$s$.init($1.loc);
$$s$.basicType = EbtStruct;
$$s$.userDef = structure;
--parseContext.structNestingLevel;
}
| STRUCT LEFT_BRACE { parseContext.nestedStructCheck($1.loc); } struct_declaration_list RIGHT_BRACE {
TType* structure = new TType($4, TString(""));
$$.$$init($1.loc);
$$.$$basicType = EbtStruct;
$$.$$userDef = structure;
--parseContext.structNestingLevel;
}
;

struct_declaration_list
: struct_declaration {
$$ = $1;
}
| struct_declaration_list struct_declaration {
$$ = $1;
for (unsigned int i = 0; i < $$->size(); ++i) {
for (unsigned int j = 0; j < $$->size(); ++j) {
if ((*$$)[j].type->getFieldName() == (*$2)[i].type->getFieldName())
    parseContext.error(($2)[i].loc, "duplicate member name:", "," , (*$2)[i].type->getFieldName().c_str());
}$$->push_back((*$2)[i]);
}
}
;

struct_declaration
: type_specifier struct_declarator_list SEMICOLON {
if ($1.arraySizes) {
    parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
    parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
    if (parseContext.profile == EEsProfile)
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
}
$$ = $2;

parseContext:voidErrorCheck($1.loc, (*$2)[0].type->getFieldName(), $1.basicType);
parseContext:precisionQualifierCheck($1.loc, $1.basicType, $1.qualifier);
for (unsigned int i = 0; i < $$->size(); ++i) {
    parseContext:arrayDimCheck($1.loc, (**$)[i].type, $1.arraySizes);
    (**$)[i].type->mergeType($1);
}
| type_qualifier type_specifier struct_declarator_list SEMICOLON {
parseContext:globalQualifierFixCheck($1.loc, $1.qualifier);
if ($2.arraySizes) {
    parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
    parseContext.profileRequires($2.loc, EEsProfile, 300, 0, "arrayed type");
    if (parseContext.profile == EEsProfile)
        parseContext.arraySizeRequiredCheck($2.loc, *$2.arraySizes);
}

$$ = $3;

parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
parseContext.voidErrorCheck($2.loc, (*$3)[0].type->getFieldName(), $2.basicType);
parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

for (unsigned int i = 0; i < $$->size(); ++i) {
    parseContext.arrayDimCheck($1.loc, (*$$.)[i].type, $2.arraySizes);
    (*$$.)[i].type->mergeType($2);
}

;

struct_declarator_list
: struct_declarator {
    $$ = new TTypeList;
    $$->push_back($1);
}

| struct_declarator_list COMMA struct_declarator {
    $$->push_back($3);
}

;

struct_declarator
: IDENTIFIER {
    $$.type = new TType(EbtVoid);
    $$.$loc = $1.$loc;
    $$.$type->setFieldName(*$1.string);
}

| IDENTIFIER array_specifier {
    parseContext.arrayDimCheck($1.loc, $2.arraySizes, 0);

    $$.$type = new TType(EbtVoid);
    $$.$loc = $1.$loc;
    $$.$type->setFieldName(*$1.string);
    $$.$type->newArraySizes(*$2.arraySizes);
}

;

initializer
assignment_expression {
    $$ = $1;
}

| LEFT_BRACE initializer_list RIGHT_BRACE {
    const char* initFeature = "{ } style initializers";
    parseContext.requireProfile($1.loc, ~EEsProfile, initFeature);
    parseContext.profileRequires($1.loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
    $$ = $2;
}

| LEFT_BRACE initializer_list COMMA RIGHT_BRACE {
    const char* initFeature = "{ } style initializers";
    parseContext.requireProfile($1.loc, ~EEsProfile, initFeature);
    parseContext.profileRequires($1.loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
    $$ = $2;
}

;

initializer_list
    : initializer {
        $$ = parseContext.intermediate.growAggregate(0, $1, $1->getLoc());
    }

    | initializer_list COMMA initializer {
        $$ = parseContext.intermediate.growAggregate($1, $3);
    }

;

declaration_statement
    : declaration { $$ = $1; }

;

statement
    : compound_statement { $$ = $1; }

    | simple_statement { $$ = $1; }

;

// Grammar Note: labeled statements for switch statements only; 'goto' is not supported.

simple_statement
    : declaration_statement { $$ = $1; }

    | expression_statement { $$ = $1; }

    | selection_statement { $$ = $1; }

    | switch_statement { $$ = $1; }

    | case_label { $$ = $1; }

    | iteration_statement { $$ = $1; }

    | jump_statement { $$ = $1; }

;

compound_statement
OPEN_SOURCE

: LEFT_BRACE RIGHT_BRACE { $$ = 0; } |
LEFT_BRACE {
    parseContext.symbolTable.push();
    ++parseContext.statementNestingLevel;
}

statement_list {
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    --parseContext.statementNestingLevel;
}

RIGHT_BRACE {
    if ($3 && $3->getAsAggregate())
        $3->getAsAggregate()->setOperator(EOpSequence);
    $$ = $3;
}

statement_no_new_scope
: compound_statement_no_new_scope { $$ = $1; } |
    simple_statement { $$ = $1; }

statementScoped
: {
    ++parseContext.controlFlowNestingLevel;
}

compound_statement {
    --parseContext.controlFlowNestingLevel;
    $$ = $2;
}

| {
    parseContext.symbolTable.push();
    ++parseContext.statementNestingLevel;
    ++parseContext.controlFlowNestingLevel;
}

simple_statement {
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    --parseContext.statementNestingLevel;
    --parseContext.controlFlowNestingLevel;
    $$ = $2;
}

compound_statement_no_new_scope
// Statement that doesn't create a new scope, for selection_statement, iteration_statement
: LEFT_BRACE RIGHT_BRACE {
    $$ = 0;
}

| LEFT_BRACE statement_list RIGHT_BRACE {
    if ($2 && $2->getAsAggregate())
$2->getAsAggregate()->setOperator(EOpSequence);
$$ = $2;
}

statement_list
 : statement {
    $$ = parseContext.intermediate.makeAggregate($1);
    if ($1 && $1->getAsBranchNode() && ($1->getAsBranchNode()->getFlowOp() == EOpCase || $1->getAsBranchNode()->getFlowOp() == EOpDefault)) {
        parseContext.wrapupSwitchSubsequence(0, $1);
        $$ = 0;  // start a fresh subsequence for what's after this case
    }
}
| statement_list statement {
    if ($2 && $2->getAsBranchNode() && ($2->getAsBranchNode()->getFlowOp() == EOpCase || $2->getAsBranchNode()->getFlowOp() == EOpDefault)) {
        parseContext.wrapupSwitchSubsequence($1 ? $1->getAsAggregate() : 0, $2);
    $$ = 0;  // start a fresh subsequence for what's after this case
    } else 
    $$ = parseContext.intermediate.growAggregate($1, $2);
    }

expression_statement
 : SEMICOLON { $$ = 0; }
| expression SEMICOLON { $$ = static_cast<TIntermNode*>($1); }

selection_statement
 : selection_statement_nonattributed {
    $$ = $1;
}
| attribute selection_statement_nonattributed {
    parseContext.handleSelectionAttributes(*$1, $2);
    $$ = $2;
}

selection_statement_nonattributed
 : IF LEFT_PAREN expression RIGHT_PAREN selection_rest_statement {
    parseContext.boolCheck($1.loc, $3);
    $$ = parseContext.intermediate.addSelection($3, $5, $1.loc);
}

selection_rest_statement
 : statementScoped ELSE statementScoped {
    $$node1 = $1;
$$.node2 = $3;

| statement_scoped {
$$node1 = $1;
$$node2 = 0;
|

condition
// In 1996 c++ draft, conditions can include single declarations
: expression {
$$ = $1;
parseContext.boolCheck($1->getLoc(), $1);
|
fully_specified_type IDENTIFIER EQUAL initializer {
parseContext.boolCheck($2.loc, $1);
TType type($1);
TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, 0, $4);
if (initNode)
$$ = initNode->getAsTyped();
else
$$ = 0;
|

switch_statement
: switch_statement_nonattributed {
$$ = $1;
|
attribute switch_statement_nonattributed {
parseContext.handleSwitchAttributes(*$1, $2);
$$ = $2;
|

switch_statement_nonattributed
: SWITCH LEFT_PAREN expression RIGHT_PAREN {
// start new switch sequence on the switch stack
++parseContext.controlFlowNestingLevel;
++parseContext.statementNestingLevel;
parseContext.switchSequenceStack.push_back(new TIntermSequence);
parseContext.switchLevel.push_back(parseContext.statementNestingLevel);
parseContext.symbolTable.push();
|
LEFT_BRACE switch_statement_list RIGHT_BRACE {
$$ = parseContext.addSwitch($1.loc, $3, $7 ? $7->getAsAggregate() : 0);
delete parseContext.switchSequenceStack.back();
parseContext.switchSequenceStack.pop_back();


```c
parseContext.switchLevel.pop_back();
parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
--parseContext.statementNestingLevel;
--parseContext.controlFlowNestingLevel;
}
;

switch_statement_list
    : /* nothing */ {  
        $$ = 0;
    } | statement_list {  
        $$ = $1;
    }
;

case_label
    : CASE expression COLON {  
        $$ = 0;
        if (parseContext.switchLevel.size() == 0)
            parseContext.error($1.loc, "cannot appear outside switch statement", "case", "");
        else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
            parseContext.error($1.loc, "cannot be nested inside control flow", "case", "");
        else {
            parseContext.constantValueCheck($2, "case");
            parseContext.integerCheck($2, "case");
            $$ = parseContext.intermediate.addBranch(EOpCase, $2, $1.loc);
        }
    } | DEFAULT COLON {  
        $$ = 0;
        if (parseContext.switchLevel.size() == 0)
            parseContext.error($1.loc, "cannot appear outside switch statement", "default", "");
        else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
            parseContext.error($1.loc, "cannot be nested inside control flow", "default", "");
        else
            $$ = parseContext.intermediate.addBranch(EOpDefault, $1.loc);
    }
;

iteration_statement
    : iteration_statement_nonattributed {  
        $$ = $1;
    } | attribute iteration_statement_nonattributed {
        parseContext.handleLoopAttributes(*$1, $2);
        $$ = $2;
    }
```
iteration_statement_nonattributed
: WHILE LEFT_PAREN {
    if (! parseContext.limits.whileLoops)
        parseContext.error($1.loc, "while loops not available", "limitation", "");
    parseContext.symbolTable.push();
    ++parseContext.loopNestingLevel;
    ++parseContext.statementNestingLevel;
    ++parseContext.controlFlowNestingLevel;
}
condition RIGHT_PAREN statement_no_new_scope {
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    $$ = parseContext.intermediate.addLoop($6, $4, 0, true, $1.loc);
    --parseContext.loopNestingLevel;
    --parseContext.statementNestingLevel;
    --parseContext.controlFlowNestingLevel;
}
| DO {
    ++parseContext.loopNestingLevel;
    ++parseContext.statementNestingLevel;
    ++parseContext.controlFlowNestingLevel;
}
statement WHILE LEFT_PAREN expression RIGHT_PAREN SEMICOLON {
    if (! parseContext.limits.whileLoops)
        parseContext.error($1.loc, "do-while loops not available", "limitation", "");
    parseContext.boolCheck($8.loc, $6);
    $$ = parseContext.intermediate.addLoop($3, $6, 0, false, $4.loc);
    --parseContext.loopNestingLevel;
    --parseContext.statementNestingLevel;
    --parseContext.controlFlowNestingLevel;
}
| FOR LEFT_PAREN {
    parseContext.symbolTable.push();
    ++parseContext.loopNestingLevel;
    ++parseContext.statementNestingLevel;
    ++parseContext.controlFlowNestingLevel;
}
for_init_statement for_rest_statement RIGHT_PAREN statement_no_new_scope {
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    $$ = parseContext.intermediate.makeAggregate($4, $2.loc);
    TIntermLoop* forLoop = parseContext.intermediate.addLoop($7, reinterpret_cast<TIntermTyped*>($5.node1),
    reinterpret_cast<TIntermTyped*>($5.node2), true, $1.loc);
    if (! parseContext.limits.nonInductiveForLoops)
        parseContext.inductiveLoopCheck($1.loc, $4, forLoop);
    $$ = parseContext.intermediate.growAggregate($$, forLoop, $1.loc);
    $$->getAsAggregate()->setOperator(EOpSequence);
for_init_statement:
  : expression_statement {
    $$ = $1;
  }
  | declaration_statement {
    $$ = $1;
  }
  ;

conditionopt:
  : condition {
    $$ = $1;
  }
  | /* May be null */ {
    $$ = 0;
  }
  ;

for_rest_statement:
  : conditionopt SEMICOLON {
    $$node1 = $1;
    $$node2 = 0;
  }
  | conditionopt SEMICOLON expression {
    $$node1 = $1;
    $$node2 = $3;
  }
  ;

jump_statement:
  : CONTINUE SEMICOLON {
    if (parseContext.loopNestingLevel <= 0)
      parseContext.error($1.loc, "continue statement only allowed in loops", ",", ",");
    $$ = parseContext.intermediate.addBranch(EOpContinue, $1.loc);
  }
  | BREAK SEMICOLON {
    if (parseContext.loopNestingLevel + parseContext.switchSequenceStack.size() <= 0)
      parseContext.error($1.loc, "break statement only allowed in switch and loops", ",", ",");
    $$ = parseContext.intermediate.addBranch(EOpBreak, $1.loc);
  }
  | RETURN SEMICOLON {
    $$ = parseContext.intermediate.addBranch(EOpReturn, $1.loc);
if (parseContext.currentFunctionType->getBasicType() != EbtVoid)
    parseContext.error($1.loc, "non-void function must return a value", "return", "");
if (parseContext.inMain)
    parseContext.postEntryPointReturn = true;
}
| RETURN expression SEMICOLON |
  $$ = parseContext.handleReturnValue($1.loc, $2);
| DISCARD SEMICOLON |
  parseContext.requireStage($1.loc, EShLangFragment, "discard");
  $$ = parseContext.intermediate.addBranch(EOpKill, $1.loc);
} ;

// Grammar Note:  No 'goto'.  Gotos are not supported.

translation_unit
 : external_declaration |
  $$ = $1;
  parseContext.intermediate.setTreeRoot($$);
| translation_unit external_declaration |
  if ($2 != nullptr) |
    $$ = parseContext.intermediate.growAggregate($1, $2);
    parseContext.intermediate.setTreeRoot($$);
  |
| external_declaration |
  : function_definition |
    $$ = $1;
  | declaration |
    $$ = $1;
  | SEMICOLON |
    parseContext.requireProfile($1.loc, ~EEsProfile, "extraneous semicolon");
    parseContext.profileRequires($1.loc, ~EEsProfile, 460, nullptr, "extraneous semicolon");
    $$ = nullptr;
  |
| function_definition |
  : function_prototype |
    $1.function = parseContext.handleFunctionDeclarator($1.loc, *$1.function, false /* not prototype */);
    $1.intermNode = parseContext.handleFunctionDefinition($1.loc, *$1.function);
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```c
compound_statement_no_new_scope {
    // May be best done as post process phase on intermediate code
    if (parseContext.currentFunctionType->getBasicType() != EbtVoid && ! parseContext.functionReturnsValue)
        parseContext.error($1.loc, "function does not return a value: ", ", ", $1.function->getName().c_str());
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    $$ = parseContext.intermediate.growAggregate($1.intermNode, $3);
    parseContext.intermediate.setAggregateOperator($$, EOpFunction, $1.function->getType(), $1.loc);
    $$->getAsAggregate()->setName($1.function->getMangledName().c_str());

    // store the pragma information for debug and optimize and other vendor specific
    // information. This information can be queried from the parse tree
    $$->getAsAggregate()->setOptimize(parseContext.contextPragma.optimize);
    $$->getAsAggregate()->setDebug(parseContext.contextPragma.debug);
    $$->getAsAggregate()->setPragmaTable(parseContext.contextPragma.pragmaTable);
}

attribute :
    LEFT_BRACKET LEFT_BRACKET attribute_list RIGHT_BRACKET RIGHT_BRACKET {
        $$ = $3;
        parseContext.requireExtensions($1.loc, 1, &E_GL_EXT_control_flow_attributes, "attribute");
    }

attribute_list :
    single_attribute {
        $$ = $1;
    }
    | attribute_list COMMA single_attribute {
        $$ = parseContext.mergeAttributes($1, $3);
    }

single_attribute :
    IDENTIFIER {
        $$ = parseContext.makeAttributes(*$1.string);
    }
    | IDENTIFIER LEFT_PAREN constant_expression RIGHT_PAREN {
        $$ = parseContext.makeAttributes(*$1.string, $3);
    }

%%

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1.2332 x-net 0.0.0-20200602114024-627f9648deb9

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1.2334 kubernetes-client 0.0.0-20190620085101-78d2af792bab

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1.2344 assertion-error 1.1.0

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# AssertionError ![Build Status](https://travis-ci.org/chaijs/assertion-error.png?branch=master)

> Error constructor for test and validation frameworks that implements standardized AssertionError specification.

## Installation

### Node.js

`assertion-error` is available on [npm](http://npmjs.org).

$ npm install assertion-error

### Component

`assertion-error` is available as a [component](https://github.com/component/component).

$ component install chaijs/assertion-error

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1.2345 tzinfo 2.0.4

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1.2346 python-setuptools 39.0.1-2

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1.2347 berkeley-db 5.3.28 13.1ubuntu1.1

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@c End:

1.2353 go-macaron-binding 0.0.0-20190806013118-0b4f37bab25b
1.2353.1 Available under license :
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Found in path(s):
*/opt/cola/permits/1213299318_1635451626.59/0/golang-github-macaron-contrib-binding-rdo-common.zip/golang-github-macaron-contrib-binding-rdo-common/golang-github-macaron-contrib-binding.spec

1.2354 grpc-ecosystem-go-grpc-middleware-providers-kit 2.0.0-20201002093600-73cf2ae9d891
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1.2364 balanced-match 1.0.2

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1.2365 libxmu 1.1.2-2
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No license file was found, but licenses were detected in source scan.

--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#!/bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$SNOCONFIGURE"; then
+    $srcdir/configure "$@
+fi
--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+ when building in parallel (closes: #801059). Thanks, Matthias Klose!
+
+ [ Julien Cristau ]
+ * Remove Cyril from Uploaders.
+ * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 14 Nov 2015 10:04:44 +0100
+
+libxmu (2:1.1.2-1) unstable; urgency=low
+
+ * New upstream release.
+ * Add ${misc:Depends} to libxmu-headers.
+ * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ * Add build-arch, indep debian/rules targets.
+ * Bump debhelper compat level from 5 to 7.
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 05 May 2014 14:13:01 +0200
+
+libxmu (2:1.1.1-1) unstable; urgency=low
+
+ * New upstream release.
Don't require (fake)root for debian/rules clean.

Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per configure.ac.

Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call from debian/rules.

Remove David Nusinow from Uploaders.

Bump debhelper build-dep for ${misc:Pre-Depends} usage.

-- Julien Cristau <jcristau@debian.org> Sat, 21 Apr 2012 10:50:11 +0200

+libxmu (2:1.1.0-3) unstable; urgency=low

* Build for multiarch.

-- Steve Langasek <vorlon@debian.org> Fri, 21 Oct 2011 14:47:59 -0700

+libxmu (2:1.1.0-2) unstable; urgency=low

* New upstream release.

  * Bump xutils-dev build-dep for new macros.

  * Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.

  * Pass --with-xmlto and --without-fop (we want html and txt only).

  * Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to libxmu-headers.install file.

  * Remove the hardcoded path to the X logo in the Xmu.html file.

  * Kill *.xml in the doc directory, no point in shipping them.

  * Switch from --list-missing to --fail-missing for additional safety.

-- Cyril Brulebois <kibi@debian.org> Fri, 19 Nov 2010 08:42:29 +0100

+libxmu (2:1.0.5-2) unstable; urgency=high

* Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
+ good reason. Thanks, Colin Watson!
+ * Remove myself from Uploading.
+ * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
+ libxmuu1-dbg (Closes: #594500). Thanks to Luca Falavigna for the report.
+ 
+ [ Cyril Brulebois ]
+ * Add myself to Uploading.
+ * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
+ for the report.
+ 
+ -- Cyril Brulebois <kibi@debian.org> Sat, 04 Sep 2010 14:32:30 +0200
+
+libxmu (2:1.0.5-1) unstable; urgency=low
+
+ [ Timo Aaltonen ]
+ * New upstream release.
+ + Fix 64bit support (closes: #521887)
+
+ [ Julien Cristau ]
+ * Bump Standards-Version to 3.8.3.
+
+ -- Julien Cristau <jcristau@debian.org> Wed, 25 Nov 2009 19:20:17 +0100
+
+libxmu (2:1.0.4-2) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * Drop -1 debian revisions from build-deps.
+ * libxmu6{-dbg}, libxmu-dev, libxmuu1{-dbg} and libxmuu-dev don't need a
+ dependency on x11-common.
+ * Build libxmu-headers in binary-indep instead of binary-arch
+ + (closes: #486418). Thanks, Martin Koeppel!
+ * Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
+ * Handle parallel builds.
+
+ [ Brice Goglin ]
+ * Add a link to www.X.org and a reference to the upstream module
+ in the long description.
+ * Add upstream URL to debian/copyright.
+ * Add README.source, bump Standards-Version to 3.8.2.
+ * Use updated xsfbs, closes: #538587.
+ * Move -dbg packages to section debug.
+
+ -- Julien Cristau <jcristau@debian.org> Fri, 07 Aug 2009 14:30:36 +0200
+
+libxmu (2:1.0.4-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ * Make libxmu*-dev depend on libxmu-headers (= ${source:Version}). Thanks,
  + Josh Triplett.
+ * Don't export private dependencies in xmu.pc and xmuu.pc. These
dependencies are handled by Requires:private.
+ * Due to the above, build-depend on quilt and apply the xsfbs patch rules.
+ * Update xsfbs to the latest version as of 2008-01-06.
+ * Add myself to Uploaders, and remove Branden and Fabio with their
  + permission.
+ * Bump Standards-Version to 3.7.3 (no changes).
+ * s/^XS-Vcs/Vcs/

  [ Timo Aaltonen ]
+ * Bump the epoch so that this can be synced to Ubuntu in the future.
+
+ -- Julien Cristau <jcristau@debian.org>  Thu, 17 Jan 2008 14:57:47 +0100
+
+libxmu (1:1.0.3-1) unstable; urgency=low
+
+ * New upstream release.
+ * Install the upstream changelog.
+ * Remove outdated CVS information from the package descriptions, and add
  + XS-Vcs-Git and XS-Vcs-Browser.
+ * Fix package sections (libraries in libs, development stuff in libdevel).
+ * Use ${binary:Version} instead of ${Source-Version}.
+
+ -- Julien Cristau <jcristau@debian.org>  Thu, 12 Apr 2007 13:40:07 +0200
+
libxmu (1:1.0.2-2) unstable; urgency=low
+
+ [ Andres Salomon ]
+ * Test for obj-$DEB_BUILD_GNU_TYPE before creating it during build;
  + idempotency fix.
+
+ [ Drew Parsons ]
+ * dbg package has priority extra.
+
+ -- David Nusinow <dnusinow@debian.org>  Wed, 30 Aug 2006 16:53:25 -0400
+
+libxmu (1:1.0.2-1) experimental; urgency=low
+
+ * New upstream release
+ * Bump debhelper compat to 5
+ * Run dh_install with --list-missing
+ * Version the -headers package's x11-common pre-dep to use version 1:7.0.0
  + to match the rest of Debian and shut lintian up
+ * Bump standards version to 3.7.2.0
+
+ -- David Nusinow <dnusinow@debian.org>  Mon,  3 Jul 2006 18:43:32 -0400
+ libxmu (1:1.0.1-3) unstable; urgency=low
+ * Reorder makeshlib command in rules file so that ldconfig is run properly. Thanks Drew Parsons and Steve Langasek.
+ -- David Nusinow <dnusinow@debian.org>  Tue, 18 Apr 2006 21:49:59 -0400
+ libxmu (1:1.0.1-2) unstable; urgency=low
+ * Upload to unstable
+ -- David Nusinow <dnusinow@debian.org>  Thu, 23 Mar 2006 22:44:59 -0500
+ libxmu (1:1.0.1-1) experimental; urgency=low
+ * First upload to Debian
+ -- David Nusinow <dnusinow@debian.org>  Thu, 29 Dec 2005 20:53:53 -0500
+ libxmu (1:6.2.3-5) breezy; urgency=low
+ * Also, libxmu-dev needs to depend on libxt-dev too.
+ -- Adam Conrad <adconrad@ubuntu.com>  Mon, 25 Jul 2005 09:43:47 +0000
+ libxmu (1:6.2.3-4) breezy; urgency=low
+ * Bump libxt-dev build-dep once more, _XOPEN_SOURCE begone!
+ -- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 10:48:14 +0000
+ libxmu (1:6.2.3-3) breezy; urgency=low
+ * Make libxmu-dev depend on libxext-dev, since libxmu links to it.
+ -- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 07:56:02 +0000
+ libxmu (1:6.2.3-2) breezy; urgency=low
+ * Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid _XOPEN_SOURCE.
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Sat, 23 Jul 2005 00:20:50 +1000
+ libxmu (1:6.2.3-1) breezy; urgency=low
+ * First libxmu release.
--- libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
@@ -0,0 +1 @@
+9
--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+  debhelper (>= 9),
+  dh-autoreconf,
+  libx11-dev (>= 1:0.99.2),
+  libxt-dev (>= 1:0.99.1),
+  libxext-dev (>= 1:0.99.1),
+  pkg-config,
+  quilt,
+  automake,
+  libtool,
+  xutils-dev (>= 1:7.6+2),
+# devel-docs:
+  xmlto (>= 0.0.22),
+  xorg-sgml-doctools (>= 1:1.8),
+  w3m,
+Standards-Version: 3.9.6
+Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
+Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git
+
+Package: libxmu6
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous utility library
+libXmu provides a set of miscellaneous utility convenience functions for X
+libraries to use. libXmuu is a lighter-weight version that does not depend
+on libXt or libXext; for more information, see libxmuu1.
+.
+More information about X.Org can be found at:
+<URL:http://www.X.org>
+.
+This module can be found at
+git://anongit.freedesktop.org/git/xorg/lib/libXmu
+Package: libxmu6-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})
+Description: X11 miscellaneous utility library (debug package)
+ libxmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the debug versions of the library found in libxmu6.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-
+ headers (= ${source:Version})
+Description: X11 miscellaneous utility library (development headers)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the development headers for the library found in
+ libxmu6. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu1
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous micro-utility library
libXmuu provides a set of miscellaneous utility convenience functions for X libraries to use. It is a lighter version of libXmu that does not depend on libXt or libXext; for more information on libXmu, see libxmu6.

More information about X.Org can be found at:
+ <URL:http://www.X.org>

This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmuu1-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
+Description: X11 miscellaneous micro-utility library (debug package)
+libXmuu provides a set of miscellaneous utility convenience functions for X libraries to use. It is a lighter version of libXmu that does not depend on libXt or libXext; for more information on libXmu, see libxmu6.

This package contains the debug versions of the library found in libxmuu1. Non-developers likely have little use for this package.

More information about X.Org can be found at:
+ <URL:http://www.X.org>

This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmuu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
+libXmuu provides a set of miscellaneous utility convenience functions for X libraries to use. It is a lighter version of libXmu that does not depend on libXt or libXext; for more information on libXmu, see libxmu6.

This package contains the development headers for the library found in libxmuu1. Non-developers likely have little use for this package.

More information about X.Org can be found at:
+ <URL:http://www.X.org>

This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+ 
+Package: libxmu-headers
+Section: libdevel
+Architecture: all
+Multi-Arch: foreign
+Depends:
+ libx11-dev,
+ x11proto-core-dev,
+ ${misc:Depends},
+Description: X11 miscellaneous utility library headers
+ libXmu and libXmuu are miscellaneous utility libraries for X library
+ developers to abstract some common functions. This package provides the
+ headers for both libraries (as libXmuu is a subset of libXmu), and
+ is depended upon by both. For more information, please see libxmu-dev or
+ libxmuu-dev.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
--- libxmu-1.1.2.orig/debian/copyright
+++ libxmu-1.1.2/debian/copyright
@@ -0,0 +1,77 @@
+This package was downloaded from
+http://xorg.freedesktop.org/releases/individual/lib/
+ +
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+
+---------
+
+Xmu/StrToBmap.c and Xmu/GrayPixmap.c also have:
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+---------
+
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--- libxmu-1.1.2.orig/debian/libxmu-dev.install
+++ libxmu-1.1.2/debian/libxmu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmu.a
+usr/lib/*/libXmu.so
+usr/lib/*/pkgconfig/xmu.pc
--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu-headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1 @@
+usr/lib/*/libXmu.so.6*
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmuu.a
+usr/lib/*/libXmuu.so
+usr/lib/*/pkgconfig/xmuu.pc
--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxmuu1.install
@@ -0,0 +1 @@
+usr/lib/*/libXmuu.so.1*
--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
diff --git a/xmu.pc.in b/xmu.pc.in
index a086f83..15dabbf 100644
--- a/xmu.pc.in
+++ a/xmu.pc.in
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index a086f83..15dabbf 100644
+--- a/xmuu.pc.in
++++ b/xmuu.pc.in
+@ @ -6,7 +6,7 @ includedir=@includedir@
+Name: Xmu
+Description: Xmu Library
+Version: @PACKAGE_VERSION@
+Requires: xproto x11 xt
++Requires: xproto xt
+Requires.private: x11 xt xext
+Cflags: -I$(includedir)
+Libs: -LS[libdir] -lXmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
1.2366 is-stream 2.0.1

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1.2367 easyjson 0.7.6

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1.2368 lxd 3.0.3 0ubuntu1~18.04.1
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1.2373 pcre 8.39-9

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1.2374 gopkg-in/macaron 1.3.9

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Michiel Sikkes <michiel@eyesopened.nl>
Michael Vogt <michael.vogt@ubuntu.com>
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1.2386 prometheus-common 0.15.0

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package types

import "time"

// FeatureType store features types
type FeatureType string

const (  
// HA means High Availability
HA = FeatureType("HA")  
// DEV means developer licence
DEV = FeatureType("DEV")  
// TRIAL means trial licence
TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {  
ArrayUUID string       `json:"arrayUUID,omitempty"`
ClusterID string       `json:"clusterID,omitempty"`
}
CustomerID string `json:"customerID"`
CustomerName string `json:"customerName"`
Storage int `json:"storage"`
ValidUntil time.Time `json:"validUntil"`
LicenceType string `json:"licenceType"`
Features map[FeatureType]bool `json:"features"`
Unregistered bool `json:"unregistered"`

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
    Key string `json:"key"`
}

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limitations under the License.

// Notice is a migration warning
type Notice struct {
    Plugin string
    Option string
    Severity string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version string
}

func (n *Notice) ToString() string {

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin string
    Option string
    Severity string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version string
}
s := ""
if n.Option == "" {
    s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
} else {
    s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
}
if n.Severity == SevUnsupported {
    s += "is unsupported by this migration tool in " + n.Version + "."
} else if n.Severity == SevNewDefault {
    s += "is added as a default in " + n.Version + "."
} else {
    s += "is " + n.Severity + " in " + n.Version + "."
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(`It is replaced by "%v".`, n.ReplacedBy)
}
if n.Additional != "" {
    s += n.Additional
}
return s

const {
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    SevDeprecated = "deprecated"  // deprecated, but still completely functional
    SevIgnored = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    SevRemoved = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    SevNewDefault = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    SevAll = "all" // show all statuses
}

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Francesc Campoy <campoy@golang.org>
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Igor Mikushkin <igor.mikushkin@gmail.com>
Iskander Sharipov <quasilyte@gmail.com>
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= vend... LICE... 3b83ef96387f14655fc854ddc3c6bd57
package storageos

import (    "encoding/json"
        "github.com/storageos/go-api/types"
)

const (    // licenceAPIPrefix is a partial path to the HTTP endpoint.    licenceAPIPrefix = "licencing"
)


// LicenceApply applies a licence on the server.    func (c *Client) LicenceApply(licenceKey string) error {        _, err := c.do("POST", licenceAPIPrefix, doOptions{            data: &types.LicenceKeyContainer{Key: licenceKey},        })        return err    }
// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{ })
    if err != nil {
        return err
    }
    return resp.Body.Close()
}

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bmatsuo
shawnps
theory
jboverfelt
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tomb - support for clean goroutine termination in Go.

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}
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package simulator

import (  
  "github.com/vmware/govmomi/object"  
  "github.com/vmware/govmomi/vim25/methods"  
  "github.com/vmware/govmomi/vim25/mo"  
  "github.com/vmware/govmomi/vim25/soap"  
  "github.com/vmware/govmomi/vim25/types"  
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{  
  LicenseKey: "00000-00000-00000-00000-00000",  
  EditionKey: "eval",  
  Name: "Evaluation Mode",  
  Properties: []types.KeyAnyValue{  
    Key: "feature",  
  }
}
Value: types.KeyValue{
  Key:   "serialuri:2",
  Value: "Remote virtual Serial Port Concentrator",
},
},
{
  Key: "feature",
  Value: types.KeyValue{
    Key:   "dvs",
    Value: "vSphere Distributed Switch",
  },
},
}

type LicenseManager struct {
  mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
  m := &LicenseManager{}
  m.Self = ref
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense

  if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }

  return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{},
  }

  for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
      body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
      return body
    }
  }

  m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:     req.Labels,
  })
body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
body := &methods.RemoveLicenseBody{
Res: &types.RemoveLicenseResponse{ },
}

for i, license := range m.Licenses {
if req.LicenseKey == license.LicenseKey {
m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
return body
}
}

return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
body := &methods.UpdateLicenseLabelBody{

for i := range m.Licenses {
license := &m.Licenses[i]

if req.LicenseKey != license.LicenseKey {
continue
}

body.Res = new(types.UpdateLicenseLabelResponse)

for j := range license.Labels {
label := &license.Labels[j]

if label.Key == req.LabelKey {
if req.LabelValue == "" {
license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
} else {
label.Value = req.LabelValue
}
return body
}

license.Labels = append(license.Labels, types.KeyValue{
Key: req.LabelKey,
Value: req.LabelValue,
}
return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels
return info
}
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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>`
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `\-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\<namespace/>` .

- `\<pod-namespace>/<pod-name>:\<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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procfs provides functions to retrieve system, kernel and process
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    Andrew Gerrand <adg@golang.org>
    Brad Fitzpatrick <bradfitz@golang.org>
    Eric Koleda <ekoleda+devrel@googlers.com>
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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.

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

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

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1.2396 libpython3-6-minimal 3.6.9

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (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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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
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Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and
`getnameinfo', which are coded in separate source files from the WIDE

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with python standard

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

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

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"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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6. As an exception to the Sections above, you may also combine or
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@enumerate 0
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@item Source Code.

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

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

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1.2408 x-sys 0.0.0-20191220142924-d4481acd189f
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1.2409 githubcompelletiergotoml v1.8.1

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1.2410 fonts-ubuntu 0.83-2

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Ubuntu Font Family Licensing FAQ

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):
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 [9]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:


* [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 [14]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 interium. 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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1.2411 x-crypto 0.0.0-20190820162420-60c769a6c586

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1.2412 units 0.0.0-20190924025748-f65c72e2690d

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1.2413 golang-org-x-oauth2 v0.0.0-
20190604053449-0f29369cfe45

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1.2414 webencodings 0.5

1.2414.1 Available under license :

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from setuptools import setup, find_packages
import io
from os import path
import re

VERSION = re.search("VERSION = '([^']*)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8').read().strip()).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',
    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 :: 2',
        'Programming Language :: Python :: 3',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/setup.py
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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
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* 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.

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/labels.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/__init__.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/tests.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/x_user_defined.py

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Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/labels.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/__init__.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/tests.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/x_user_defined.py

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Metadata-Version: 1.1
Name: webencodings
Version: 0.5
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Simon Sapin
Author-email: simon.sapin@exyr.org
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard`_.

* 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
* License: BSD
* 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
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/PKG-INFO
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/webencodings.egg-info/PKG-INFO

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

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

def generate(url):
    parts = [""
```
Map encoding labels to their name.

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```python
# XXX Do not edit!
# This file is automatically generated by mklabels.py

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

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

return ''.join(parts)

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

Found in path(s):
  * /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/mklabels.py

1.2415 jackson-datatype-jsr310 2.9.10

1.2415.1 Available under license:

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1.2417 grpc-gateway 1.9.5
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1.2420 libguestfs 1.36.13-1ubuntu3.3
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(* virt-sparify
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This is the traditional virt-sparsify mode: We copy from a source disk to a destination disk.

open Unix
open Printf
open Common_utils
open Common_gettext.Gettext
open Unix_utils
open Utils
open Cmdline
module G = Guestfs

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

let run indisk outdisk check_tmpdir compress convert
  format ignores machine_readable option tmp_param zeroes =

(* Once we have got past argument parsing and start to create temporary files (including the potentially massive overlay file), we need to catch SIGINT (^C) and exit cleanly so the temporary file goes away. Note that we don't delete temporaries in the signal handler. *)
let do_sigint _ = exit 1 in
 Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* What should the output format be? If the user specified an input format, use that, else detect it from the source image. *)
let output_format =
  match convert with
  | Some fmt -> fmt (* user specified output conversion *)
  | None ->
    match format with
    | Some fmt -> fmt (* user specified input format, use that *)
    | None ->
      (* Don't know, so we must autodetect. *)
match (open_guestfs ())#disk_format indisk  with
| "unknown" ->
  error (f_"cannot detect input disk format; use the --format parameter")
| fnt -> fnt in

(* Compression is not supported by raw output (RHBZ#852194). *)
if output_format = "raw" && compress then
  error (f_"--compress cannot be used for raw output. Remove this option or use --convert qcow2.");

(* Use TMPDIR or --tmp parameter? *)
let tmp_place =
match tmp_param with
| None -> Directory Filename.temp_dir_name (* $TMPDIR or /tmp *)
| Some dir when is_directory dir -> Directory dir
| Some dev when is_block_device dev -> Block_device dev
| Some file when String.is_prefix file "prebuilt:" ->
  let file = String.sub file 9 (String.length file - 9) in
  if not (Sys.file_exists file) then
    error (f_"--tmp prebuilt:file: %s: file does not exist") file;
  let g = open_guestfs () in
  if g#disk_format file <> "qcow2" then
    error (f_"--tmp prebuilt:file: %s: file format is not qcow2") file;
  if not (g#disk_has_backing_file file) then
    error (f_"--tmp prebuilt:file: %s: file does not have backing file")
      file;
  Prebuilt_file file
| Some path ->
  error (f_"--tmp parameter must point to a directory, block device or prebuilt file") in

(* Check there is enough space in temporary directory. *)
(match tmp_place with
| Block_device _
| Prebuilt_file _ -> ()
| Directory tmpdir ->
  (* Get virtual size of the input disk. *)
  let virtual_size = (open_guestfs ())#disk_virtual_size indisk in
  debug "input disk virtual size is %Ld bytes (%s)"
    virtual_size (human_size virtual_size);

  let print_warning () =
    let free_space = StatVFS.free_space tmpdir in
    let extra_needed = virtual_size ^ free_space in
    if extra_needed > 0L then (warning (f_"\n    There may not be enough free space on %s.
    You may need to set TMPDIR to point to a directory with more free space.

    Max needed: %s. Free: %s. May need another %s.

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Note this is an overestimate. If the guest disk is full of data
then not as much free space would be required.

You can ignore this warning or change it to a hard failure using the
--check-tmpdir=(ignore|continue|warn|fail) option. See virt-sparsify(1).

```%

match check_tmpdir with
| `Ignore -> ()
| `Continue -> ignore (print_warning ())
| `Warn ->
  if print_warning () then (eprintf "Press RETURN to continue or ^C to quit.\n\n%!");
    ignore (read_line ())
| `Fail ->
  if print_warning () then (eprintf "Exiting because --check-tmpdir=fail was set.\n\n%!");
    exit 2
);)

(* Create the temporary overlay file. *)
let overlaydisk =
  (match tmp_place with
   | Directory tmpdir ->
     message (f_"Create overlay file in %s to protect source disk") tmpdir
   | Block_device device ->
     message (f_"Create overlay device %s to protect source disk") device
   | Prebuilt_file file ->
     message (f_"Using prebuilt file %s as overlay") file
   );)

(* Create 'tmp' with the indisk as the backing file. *)
let create tmp =
  let g = open_guestfs () in
  g#disk_create
      ~backingfile:indisk ?backingformat:format ~compat:"1.1"
      tmp "qcow2" Int64.minus_one
    in
```
match tmp_place with
| Directory temp_dir ->
  let tmp = Filename.temp_file ~temp_dir "sparsify" "qcow2" in
  unlink_on_exit tmp;
  create tmp;
  tmp
| Block_device device ->
  create device;
  device
| Prebuilt_file file ->
  (* Don't create anything, use the prebuilt file as overlay. *)
  file in

message (f_"Examine source disk");

(* Connect to libguestfs. *)
let g =
  let g = open_guestfs () in

  (* Note that the temporary overlay disk is always qcow2 format. *)
  g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

  if not (quiet ()) then Progress.set_up_progress_bar ~machine_readable g;
  g#launch ();

  g in

(* Decrypt the disks. *)
inspect_decrypt g;

(* Modify SIGINT handler (set first above) to cancel the handle. *)
let do_sigint _ =
  g#user_cancel ();
  exit 1
in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Write zeroes for non-ignored filesystems that we are able to mount, *
  * and selected swap partitions. *)
let filesystems = g#list_filesystems () in
let btrfs_filesystems = List.filter (
  fun (fs, fstype) ->
    fstype = "btrfs"
) filesystems in
let btrfs_filesystems = List.map fst btrfs_filesystems in
let filesystems = List.map fst filesystems in
let filesystems = List.sort compare filesystems in

let is_ignored fs =
  let fs = g#canonical_device_name fs in
  List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores in

let is_read_only_lv = is_read_only_lv g in

let is_readonly_btrfs_snapshot fs mp =
  try
    let is_btrfs = List.mem fs btrfs_filesystems in
    if is_btrfs then (try
      let vol_info = g#btrfs_subvolume_show mp in
      String.find (List.assoc "Flags" vol_info) "readonly" <> -1
      with G.Error _ -> false
    ) else false
  with Not_found -> false
in

let is_readonly_device mp =
  let statvfs = g#statvfs mp in
  let flags = statvfs.G.flag in
  (* 0x01 is ST_RDONLY in Linux' GNU libc. *)
  flags <> -1_L && (flags &^ 0x1_L) <> 0_L
in

List.iter (
  fun fs ->
    if not (is_ignored fs) && not (is_read_only_lv fs) then (if List.mem fs zeroes then (message (f_"Zeroing %s") fs;
                                                                  g#zero_device fs)
                                                                 else (let mounted = try g#mount fs "/"; true
                                                                     with _ -> false in
                                                                     if mounted then (if is_readonly_btrfs_snapshot fs "/" then (info (f_"Skipping %s, as it is a read-only btrfs snapshot.") fs;
                                                                      ) else if is_readonly_device "/" then (info (f_"Skipping %s, as it is a read-only device.") fs;
                                                                       ) else (message (f_"Fill free space in %s with zero") fs;
                                                                       )
                                                                       ))
     )
)


```haskell
  g#zero_free_space "/
  
else

let is_linux_x86_swap =
  (* Look for the signature for Linux swap on i386.
   * Location depends on page size, so it definitely won't
   * work on non-x86 architectures (eg. on PPC, page size is
   * 64K). Also this avoids hibernated swap space: in those,
   * the signature is moved to a different location.
   *)
try g#pread_device fs 10 4086L = "SWAPSPACE2"
with _ -> false in

if is_linux_x86_swap then (
  message (f="Clearing Linux swap on %s") fs;

  (* Don't use mkswap. Just preserve the header containing
   * the label, UUID and swap format version (libguestfs
   * mkswap may differ from guest's own).
   *)
let header = g#pread_device fs 4096 0L in
  g#zero_device fs;
if g#pwrite_device fs header 0L <> 4096 then
  error (f="pwrite: short write restoring swap partition header")
)
)
)

  g#umount_all ()
)
)
) filesystems;

(* Fill unused space in volume groups. *)
let vgs = g#vgs () in
let vgs = Array.to_list vgs in
let vgs = List.sort compare vgs in
List.iter (fun vg ->
  if not (List.mem vg ignores) then (
    let lvname = String.random8 () in
    let lvdev = "/dev/" ^ vg ^ "/" ^ lvname in

    let created =
      try g#lvcreate_free lvname vg 100; true
      with _ -> false in

    if created then (    
      message (f="Fill free space in volgroup %s with zero") vg;
    )
  )
) vgs;
```
g#zero_device lvdev;
g#sync ();
g#lvremove lvdev
)
)
)vgs;

(* Don't need libguestfs now. *)
g#shutdown ();
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the
 destination and automatically does sparsification. *)
message ("Copy to destination and make sparse");

let cmd =
  sprintf "qemu-img convert -f qcow2 -O %s%s%s %s %s"
    (quote output_format)
    (if compress then " -c" else "")
    (match option with
      | None -> ""
      | Some option -> " -o " ^ quote option)
    (quote overlaydisk) (quote (qemu_input_filename outdisk)) in
if shell_command cmd <> 0 then
  error (f_"external command failed: %s") cmd;

(* Finished. *)
message (f_"Sparsify operation completed with no errors.");
if not (quiet ()) then
  info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.")
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   ghost@aladdin.com

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Clayton Coleman <ccoelman@redhat.com>
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 json_parse.js
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(By Douglas Crockford <douglas@crockford.com>)

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#
# Names should be added to this file as
# Name or Organization <email address>
#
# The email address is not required for organizations.
#
# Please keep the list sorted.
#
# Use the following command to generate the list
#
#git shortlog -se | awk '{print $2 " "$3 " "$4}'
#
# and do appropriate cleanups.

DanB <danb@cgrates.org>
David Wilkie <dwilkie@gmail.com>
Seyi Ogunyemi <micrypt@users.noreply.github.com>
Tapio <fitase@emblacom.com>
jaroszan <jaroslaw.szangin@gmail.com>
mspronk <martijn@orangemountain.ca>
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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion *string

}
type DeleteLicenseOutput struct {

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorResponseCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
    addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * KeyFingerprint
    //
    // * Issuer
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string
}

type ListReceivedLicensesOutput struct {
// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
        addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}
type CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
issuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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package licensemanager

import {
  "context"
    awsrmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
  if params == nil {
    params = &CheckoutBorrowLicenseInput{}  
  }

  result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, 
    addOperationCheckoutBorrowLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*CheckoutBorrowLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string
}

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string
// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyHttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {

return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorResponseCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:   region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
    "context"
)
// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {
    // Filters to scope the results. The following filters are supported:
    //
    // * Beneficiary
    //
    // * ProductSKU
    //
    // * KeyFingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string
}
type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSIgnorerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    return
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    // //
    // // This member is required.
    LicenseArn *string

    // License version.
    Version *string

}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string
// License beneficiary.
Beneficiary *string

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckInLicense",
    }
}

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1.2423 @npmcli/map-workspaces 2.0.0

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1.2424 kubernetes/cli-runtime 0.18.0

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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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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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1.2426 minipass-fetch 1.4.1

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1.2427 pastebininit 1.5-2

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go get go.uber.org/tools/update-license
```

### Usage

```go
update-license go_files...
```

### Further Work

- Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
- Support custom owner (not just "Uber Technologies, Inc.")
- Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
- Talk about removing custom logic for header comments (ie `@generated`, `Code generated by`), it probably
  makes more sense just to put the license at the top
- Better detection support for existing licenses so they can be removed
- Verbose, dry run support
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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/kisielk/gotool  https://github.com/kisielk/gotool

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match.go, match_test.go:

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* golang.org/x/mod/module - https://github.com/golang/mod

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Configurable modular Prometheus exporter for various node metrics.
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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
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Mersenne Twister
---------------

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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- Use binascii module to do the actual line-by-line conversion
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Jean-loup Gailly        Mark Adler
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ASN.1 library for Python

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[!][GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

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=en&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 3.6
* 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))
```

Would
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`):

```
>>> 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.

```
>>> 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.

```
>>> 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

```python
>>> 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) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python

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Abstract Syntax Notation One (\`ASN.1\` <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>\`) 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 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 or 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
-------------

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   /pyasn1/contents

Use case
--------

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   /example-use-case

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


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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Name: pyasn1
Version: 0.4.2
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof <etingof@gmail.com>
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) /*

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
  fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".comm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
( fputs (".lcomm ", (FILE)),			
 assemble_name ((FILE), (NAME)),		
 fprintf ((FILE), ",%u
", (int)(ROUNDED)))
#endif

/* This is how to output an assembler line 
that says to advance the location counter 
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\ 
if ((LOG)!=0) fprintf ((FILE), "t.align %d\n", (LOG))

/* This is how to store into the string BUF 
the symbol_ref name of an internal numbered label where 
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */
#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\ 
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
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@c man end
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Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

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possible use to the public, the best way to achieve this is to make it
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terms.

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to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

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@end smallexample

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notice like this when it starts in an interactive mode:

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@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Julian Seward, jseward@bzip.org
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RE
IP "6. Conveying Non-Source Forms." 4
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RS 4
IP "a." 4
IX Item "a."

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.IX Item "c."
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6b.
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.IX Item "d."
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.IP "e." 4
.IX Item "e."
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.RE
.RE 4
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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

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

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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!

#!/usr/bin/python
#
# Copyright (C) 2013-2017 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import subprocess
import time

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
self.own_files = set()

self.skip_files |= set([
    # Skip licence files.
    'COPYING',
    'COPYING.LIB',
    'COPYING3',
    'COPYING3.LIB',
    'LICENSE',
    'fdl.texi',
    'gpl_v3.texi',
    'fdl-1.3.xml',
    'gpl-3.0.xml',

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltversion.m4',
    'lt--obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symmlink-tree',
    'ylwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
])

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
return re.compile ('\t')

return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
            return True

        # Skip configure files produced by autoconf
        if filename == 'configure':
            if os.path.exists (base + '.ac'):
                return True

            if os.path.exists (base + '.in'):
                return True

            return False

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True

    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors
# Characters in a range of years. Include '.' for typos.
ranges = '[0-9](?:[-0-9.,\s]+and\s+)*[0-9]'

# Non-whitespace characters in a copyright holder's name.
name = '\[\w.,-\]'

# Matches one year.
self.year_re = re.compile ('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|\s+and\s+' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '(\[Cc\]opyright'  
    '[(Cc]\opyrights+\[Cc]\]'  
    '[(Cc]\opyright\s+\%s'  
    '[(Cc]\opyright\s+\&copy;'  
    '[(Cc]\opyright\s+\@\copyright{[ ]}'  
    '\copyright = u\''  
    '\@set\s+\copyright[\w-]+''
    # 2: the years. Include the whitespace in the year, so that  
    # we can remove any excess.
    '\s*([-?\:+ \s+and\s+]\s+)^\s*')

# 3: 'by ', if used
'\(by\s+\)?'

# 4: the copyright holder. Don't allow multiple consecutive  
# spaces, so that right-margin gloss doesn't get caught  
# (e.g. gnat_ugn.texi).
'(\s+\w{1,2}\s+)' + name + '(' + name + '+' + ')\)?''

# A regexp for notices that might have slipped by. Just matching  
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of  
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile (  
    'copyright.*\[0-9\]'  
    'copyright.*\[0-9]\[0-9\]
',  
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')  
self.holders = { '@copying': '@copying' }  
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False
# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ' '

def add_package_author(self, holder, canon_form=None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find(' ')
    while index >= 0:
        self.holder_prefixes.add(holder[:index])
        index = holder.find(' ', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
        raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year
def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                               'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete(match):
                try:
next_line = file.next()
except StopIteration:
    break

# If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation(next_line)
if not self.continuation_re.match(continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match(line, match.start())
assert match
holder = match.group(4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author(dir, filename):
    assert holder not in self.holders
elif not holder:
    self.errors.report(pathname, 'missing copyright holder')
    return (False, orig_line, next_line)
elif holder not in self.holders:
    self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)
else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start(4)]
        + canon_form
        + line[match.end(4):])

    # Remove any 'by'
    line = line[:match.start(3)] + line[match.end(3):]
# Update the copyright years.

```python
years = match.group(2).strip()
try:
    canon_form = self.canonicalise_years(dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report(pathname, str(e))
return (False, orig_line, next_line)
```

```python
line = (line[:match.start(2)]
        + ('' if intro.startswith('copyright = ') else ' ')
        + canon_form + self.separator
        + line[match.end(2):])
```

```python
# Use the standard (C) form.
if intro.endswith('right '):
    intro += ' (C)'
elif intro.endswith('c '):
    intro = intro[:-3] + '(C)'
line = line[:match.start(1)] + intro + line[match.end(1):]
```

```python
# Strip trailing whitespace
line = line.rstrip() + '\n'
return (line != orig_line, line, next_line)
```

```python
def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp '):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    mode = None
    with open(pathname, 'r') as file:
        prev = None
        mode = os.fstat(file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
```
match = self.copyright_re.search(line)
if match:
    res = self.update_copyright(dir, filename, filter,
        file, line, match)
    (this_changed, line, next_line) = res
    changed = changed or this_changed

    # Check for copyright lines that might have slipped by.
    elif self.other_copyright_re.search(line):
        self.errors.report(pathname,
            'unrecognised copyright: %s'
            % line.strip())
        lines.append(line)
        line = next_line

    # If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open(tmp_pathname, 'w') as file:
        for line in lines:
            file.write(line)
            os.fchmod(file.fileno(), mode)
    if self.use_quilt:
        subprocess.call(['quilt', 'add', pathname])
    os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange(len(subdirs) - 1, -1, -1):
            if filter.skip_dir(dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file(dir, filename):
                sys.stdout.write('Skipping %s
' % os.path.join(dir, filename))
            else:
                self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []

self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', """quilt add" files before changing them",
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('Directories:
')
    format = '%-25s
'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[0] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len(self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len(self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join(chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith(canon_dir):
                    count += 1
                    self.copyright.process_tree(dir, filter)
            if count == 0:
                self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
        sys.exit(0 if self.errors.ok() else 1)

#--------------------------------------------------

class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set(['
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set(['
            # Better not create a merge nightmare for the GNAT folks.
        '])
self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po', 

    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_extensions |= set ([
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Intel Corporation')
        self.add_external_author ('Information Technology Industry Council')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura')
        self.add_external_author ('National Research Council of Canada')
        self.add_external_author ('NVIDIA Corporation')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author ('Silicon Graphics')
        self.add_external_author ('Stephen L. Moshier')
        self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Regents of the University of California')
        self.add_external_author ('Unicode, Inc.')
        self.add_external_author ('University of Toronto')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)
self.add_dir('.', TopLevelFilter())
# boehm-gc is imported from upstream.
self.add_dir('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir('fixincludes')
self.add_dir('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gotools')
self.add_dir('include')
# intl is imported from upstream.
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcc1')
# libcilkrts is imported from upstream.
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
# libgo is imported from upstream.
self.add_dir('libgomp')
self.add_dir('libhsail-rt')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
'gcc',
'include',
'libada',
'libatomic',
'libbacktrace',
'libcc1',
'libcpp',
'libdecnumber',
'libgcc',
'libgfortran',
'libgomp',
'libhsail-rt',
'libiberty',
'libitm',
'libobjc',
'libquadmath',
'libssp',
'libstdc++-v3',
'libvtv',
'lto-plugin',
'maintainer-scripts',
'zlib',
]
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GCCCmdLine().main()
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1.2454 linux-libc-dev 4.15.0-163.171

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1.2468 python-cryptography 2.1.4-1ubuntu1.4

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1.2469 go-colorable 0.1.6

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1.2470 just-diff-apply 4.0.1

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1.2471 aws-sdk-go 1.33.12

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Upstream Authors:

Chet Ramey <chet.ramey@case.edu>
Jeff Solomon <jsolomon@stanford.edu> (examples/excallback.c)
Harold Levy <Harold.Levy@synopsys.com> (examples/rl-fgets.c)
Juergen Weigert <jnweiger@immd4.informatik.uni-erlangen.de> (examples/rlfe)
Michael Schroeder <mlschroe@immd4.informatik.uni-erlangen.de> (examples/rlfe)
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Apache-Test was originally developed by:

Doug MacEachern <dougm@cpan.org>

Now maintained by:

Fred Moyer <fred@redhotpenguin.com>
Philip M. Gollucci <pgollucci@p6m7g8.com>

with contributions from the following helpful people
(in alphabetical order):

Alessandro Forghieri <Alessandro.Forghieri@think3.com>
David Wheeler <david@kineticode.com>
Gary Benson <gbenson@redhat.com>
Geoffrey Young <geoff@modperlcookbook.org>
Ken Williams <ken@forum.swarthmore.edu>
Randy Kobes <randy@theoryx5.uwinipeg.ca>
Rick Myers <rik@sumthin.nu>
Stas Bekman <stas@stason.org>
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License: PCRE
This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.
This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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License: Haines
This imagemap module started as a port of the original imagemap.c
written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3
of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs
James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
  ImapMenu {none, formatted, semiformatted, unformatted}
  ImapDefault {error, nocontent, referer, menu, URL}
  ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
  Old: directive URL [x,y ...]
  New: directive URL "Menu text" [x,y ...
  or: directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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

For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation       July/August 1996
Misc bug fixes           May 1997
Submission to Apache Software Foundation    July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
abstract: 'Build and install Perl modules'

author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'

build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl

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The End
#!perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-­compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})\b/;  
    or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright \b(\d{4,})\b/;  
    or die "Copyright statement not found in perl -v output '$output'";

    $year;
}
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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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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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This file is part of the lwIP TCP/IP stack.

Author: Adam Dunkels <adam@sics.se>

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Authors: maximilian attems <maks@debian.org>, Jeff Bailey <jbailey@ubuntu.com>,
David Hrdeman <david@hardeman.nu>, Martin Michlmayr <tbm@cyrius.com>,
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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
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package api

import (
  "bytes"
  "io/ioutil"
  "os"
  "path/filepath"
  "regexp"
  "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)\(\)\*( All rights reserved\).)*
(//|#) Use of this source code is governed by a BSD-style
(//|#) license that can be found in the LICENSE file.
`)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
  "tools.go": true, // This file requires another comment above the license.
  "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
  "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}
// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }

        if err != nil {
            return err
        }

        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }

        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }

        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }

        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
        if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
            t.Errorf("%v: license header not at the top", path)
        }

        return nil
    })
    if err != nil {
        t.Fatal(err)
    }
}

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1.2529 xxd 8.0.1453-1ubuntu1.7

1.2530 go 1.14.14

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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
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Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Blixt <me@blixt.nyc>
Bob Briski <bbriski@gmail.com>
Bob Potter <bobby.potter@gmail.com>
Bobby DeSimone <bobbydesimone@gmail.com>
Bobby Powers <bobbypowers@gmail.com>
Boris Nagaev <nagaev@google.com>
Borja Clemente <borja.clemente@gmail.com>
Brad Burch <brad.burch@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <rbjones@google.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Bradford Lamson-Scribner <brad.lamson@gmail.com>
Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Brandon Bennett <bbennett@fb.com>
Brandon Gilmore <varz@google.com>
Brandon Philips <brandond@ifup.org>
Brandon Ryan <bjryan19@gmail.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O'Dea <bod@golang.org>
Brett Cannon <bcanon@gmail.com>
Brett Merrill <brett.j.merrill94@gmail.com>
Brian Dellisanti <briandellisanti@gmail.com>
Brian Downs <brian.downs@gmail.com>
Brian Falk <falk@logicparty.org>
Brian G. Merrell <bgmerrell@gmail.com>
Brian Gitonga Marete <marete@toshnx.com> <bgmaret@gmail.com> <bgm@google.com>
Brian Kennedy <btkennedy@gmail.com>
Brian Kessler <brian.m.kessler@gmail.com>
Brian Ketelsen <bketelsen@gmail.com>
Brian Slesinsky <skybrian@gmail.com>
Brian Smith <ohohvi@gmail.com>
Brian Starke <brian.starke@gmail.com>
Bryan Alexander <Kozical@msn.com>
Bryan C. Mills <bcmills@google.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Bryan Ford <brynosaurus@gmail.com>
Bryan Heden <b.heden@gmail.com>
Bulat Gaifullin <gaifullinbf@gmail.com>
Burak Guven <bguven@gmail.com>
Caine Tighe <arctanofyourface@gmail.com>
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>
Caleb Martinez <accounts@calebmartinez.com>
Caleb Spare <cespare@gmail.com>
Carl Chatfield <carlchatfield@gmail.com>
Carl Henrik Lunde <chlunde@ifi.uio.no>
Carl Jackson <carl@stripe.com>
Carl Johnson <me@carljohnson.net>
Carl Mastrangelo <notcarl@google.com>
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>
Carlisias Campos <carlisia@grokkingtech.io>
Carlo Alberto Ferraris <cafxx@strayorange.com>
Carlos Amedee <carlos@golang.org>
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Chad Rosier <mrosier.qdt@qualcommdatacenter.com>
ChaiShushan <chaishushan@gmail.com>
Changkun Ou <hi@changkun.us>
Channing Kimble-Brown <channing@golang.org>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <eldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Chauncy Cullitan <chauncyc@gmail.com>
Chen Zhihan <energiehund@gmail.com>
Cherry Zhang <cherryyz@gmail.com>
Chew Choon Keat <choonkeat@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
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GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @frenkie (6499251) <mail@rhab.de>
GitHub User @hengwu0 (41297446) <hengwu0@users.noreply.github.com>
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GitHub User @jinniaoluo (39730824) <jinniaoluo@icloud.com>
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GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micncim (2133876) <micncim@gmail.com>
GitHub User @mkishere (224617) <mkishere@users.noreply.github.com>
GitHub User @OlgaVlPetrova (44112727) <OVVPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saitarunredddy (21041941) <saitarunredddy@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uuropek (39370426) <uuropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@gmail.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@gmail.com>
James Myers <jfmyers9@gmail.com>
James Neve <jamesoneve@gmail.com>
James Nugent <james@jen20.com>
James P. Cooper <jamespcooper@gmail.com>
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
James Sweet <james.sweet88@googlemail.com>
James Toy <nil@openssl.st>
James Treanor <jtreanor3@gmail.com>
James Tucker <raggi@gmail.com>
James Whitehead <jnwhiteh@gmail.com>
Jamie Beverly <jamie.r.bevery@gmail.com>
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>
Jamie Kerr <jkerr113@googlemail.com>
Jamie Liu <jamieliu@gmail.com>
Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Lehnardt <jan@apache.org>
Jan Mercl <0xjnml@gmail.com> <befelemepeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Pilzer <jan.pilzer@gmx.de>
Jan Steinke <jan.stinke@gmail.com>
Jan Ziai <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jannis Andrija Schnitzer <jannis@schnitzer.im>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason A. Donenfeld <Jason@zx2c4.com>
Jason Baker <jason-baker@users.noreply.github.com>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jububerel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delpontej@gmail.com>
Jason Hall <jasonhall@google.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wangsadinata <jwangsadinata@gmail.com>
Javier Kohen <jkohen@google.com>
Javier Revillas <jrevillas@massivedynamic.io>
Javier Segura <javism@gmail.com>
JT Olio <hello@jtolio.com>
Juan Carlos <juanncsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebperreira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <jkn+github@digineo.de>
Julian Pastarmov <pastarmovj@google.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julian Tibble <julian.tibble@gmail.com>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kauffmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julio Montes <julio.montes@intel.com>
Jun Zhang <jim.zoumo@gmail.com>
Junda Liu <junda@CELER.NETWORK>
Jungho Ahn <jhahn@google.com>
Junya Hayashi <ledmonster@gmail.com>
Juraj Sukop <sukop@users.noreply.github.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <jgracenin@gmail.com>
Justin Li <git@justinli.net>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justytemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Dong <dokia2357@gmail.com>
Kai Truenmiller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kewert@atlassian.com>
Kalman Bekesi <kalmanb@google.com>
Kamal Aboul-Hosn <aboulhosn@gmail.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukangustc@gmail.com>
Kanta Ebihara <kantaebihara@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karoly Negyesi <chx1975@gmail.com>
Karsten Khler <karsten.koehler95@gmail.com>
Karthik Nayak <karthik.188@gmail.com>
Kashav Madan <kshvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Katharine Berry <ktbry@gmail.com>
Katie Hockman <katie@golang.org>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Koki Ide <niconegoto@yahoo.co.jp>
Koki Tomoshige <tomocy.dev@gmail.com>
Komu Wairagu <komuw05@gmail.com>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Koya IWAMURA <kiwamura0314@gmail.com>
Kris Kwiatkowski <kris@cloudflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@gmail.com>
Kristopher Watts <traetox@gmail.com>
Kshitij Saraogi <kshitijsaraogi@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@gmail.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eais@gmail.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrylo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lanmm@google.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonardo Comelli <leonardo.comelli@gmail.com>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Liz Rice <liz@lizrice.com>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenz Brun <lorenz@brun.one>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <rugginioso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Brengartner <lucas.brengartner@gmail.com>
Lucas Clemente <lcllemente@gmail.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luke Young <bored-engineer@users.noreply.github.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@gmail.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <maicons costa@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishsmail@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mr@gmail.com>
Manu Garg <manugarg@gmail.com>
Manu S Ajith <neo@codingarena.in>
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <antasy.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrias <mbau@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vwakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Mat Byczkowski <mbyczkowsk@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulys <mgulys86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapinski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <ne@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mjrjones@gmail.com>
Matt Juran <theperiet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattywilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <mattewbbroberg@gmail.com>
Matthew Cottingham <mattocottingham@gmail.com>
Matthew Dempsky <mdempsky@gmail.com>
Matthew Denton <mdenton@skyportsystems.com>
Paul Marks <pmarks@google.com>
Paul Meyer <paul.meyer@microsoft.com>
Paul Nasrat <pnasrat@google.com>
Paul PISCUC <paul.piscuc@gmail.com>
Paul Querna <querna@apache.org>
Paul Rosania <paul.rosania@gmail.com>
Paul Ruest <pruest@gmail.com>
Paul Sbarra <sbarra.paul@gmail.com>
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
Paul Tyng <paul@paultyng.net>
Paul van Brouwershaven <paul@vanbrouwershaven.com>
Paul Wankadia <junyee@gmail.com>
Paulo Casaretto <pcasaretto@gmail.com>
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>
Paulo Gomes <paulo.gomes.uk@gmail.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ymkins@gmail.com>
Pawel Knap <pawelknap88@gmail.com>
Pawel Szczur <filemon@gmail.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Petar Maymounkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@gmail.com>
Peter Conerly <pconerly@gmail.com>
Peter Dotchev <dotchev@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@gmail.com>
Peter Hayes <pahoyes@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@gmail.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Pter Surnyi <speter.go1@gmail.com>
Pter Szab <pts@gmail.com>
Pter Szilgyi <peterke@gmail.com>
Peter Teichman <pteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwy@cloudflare.com>
Peter Zhang <i@ddatsh.com>
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk


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Configurable modular Prometheus exporter for various node metrics.
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Data model artifacts for Prometheus.

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1.2536 prometheus-procfs 0.0.11
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```go
code
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}
```
// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================
This tutorial is to help new contributors become familiar with the processes
used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful
that everyone is new to this in the beginning. Please reach out for help or ask
for clarification if needed. No question is ever "dumb" or not worth our time
answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See
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[722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please
generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

#### Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```
Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).
Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.

3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).
Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

import (
"fmt"
"net/http"
"testing"

"github.com/gophercloud/gophercloud/openstack/service/vN/resources"
th "github.com/gophercloud/gophercloud/testhelper"
"github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `{
}
`

// GetResult provides a Get result.
const GetResult = `{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`

// UpdateRequest provides the input to as Update request.
const UpdateRequest = `{
}
`

// UpdateResult provides an update result.
const UpdateResult = `{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }
// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, DeleteRequest)
        w.WriteHeader(http.StatusNoContent)
        fmt.Fprintf(w, GetResult)
    })
}
th.TestMethod(t, r, "DELETE")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.WriteHeader(http.StatusNoContent)
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
}

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {

return pagination.Pager{Err: err}
}
url += query
    return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
})
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}
// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import {
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        return
    })
    if err != nil {
        t.Errorf("Ошибка при получении списка ресурсов: %s", err)
    }
    t.Logf("Получены %d ресурса", count)
    t.Log(count)
}
actual, err := resources.ExtractResources(page)
th.AssertNoErr(t, err)

th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

return true, nil
}
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleDeleteResourceSuccessfully(t)

res := resources.Delete(client.ServiceClient(), "9fe1d3")
.th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
  th.SetupHTTP()
defer th.TeardownHTTP()
HandleUpdateResourceSuccessfully(t)

  updateOpts := resources.UpdateOpts{
      Description: "Staging Resource",
  }

  actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
  th.AssertNoErr(t, err)
  th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!

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

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!
We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

`/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE
Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing
a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

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

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

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

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field
If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605
Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

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

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621).

In this issue, there's a request being made to add support for `
`availability_zone_hints`

meaning, we want to change:

```
```go
```

```go
type Network struct {
    ID      string `json:"id"`
    Name    string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status  string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared  bool `json:"shared"`
}
```
```
```go
type Network struct {
    ID        string `json:"id"
    Name      string `json:"name"
    AdminStateUp bool  `json:"admin_state_up"
    Status    string `json:"status"
    Subnets   []string `json:"subnets"
    TenantID  string `json:"tenant_id"
    Shared    bool   `json:"shared"

    AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find
and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips
-----------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides
========================

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---
When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

### 1.2541 libvirt-python 4.0.0-1

**1.2541.1 Available under license:**

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Version 2.1, February 1999

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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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@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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Last updated: 2009-02-28

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1.2557 jetty-servlet 9.4.35.v20201120

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org.ow2.asm:asm-commons
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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return err
        } else if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
        }
        return nil
    })
}
return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
// Automatically generated.
return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
t.Errorf("%v: license header not present. want %q", path, sentinel)
return nil
}
}
return nil
}
if err != nil {
t.Fatal(err)
}

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1.2564 json-schema-traverse 0.4.1

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xs:stylesheet version="1.0"
xmlns:xs="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xs:template name="isc.copyright.format">
  <xs:param name="text"/>
  <xs:variable name="isc.copyright.leader" select=""/>
  <xs:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
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1.2571 aws-sdk-go 1.23.12

1.2571.1 Available under license:

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"ListUsageForLicenseConfiguration":{
  "name":"ListUsageForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"
  },
  "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
  "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededExceptio
  }
  ]
}
"errors": [  
  {"shape":"InvalidParameterValueException"},  
  {"shape":"ServerInternalException"},  
  {"shape":"AuthorizationException"},  
  {"shape":"AccessDeniedException"},  
  {"shape":"RateLimitExceededException"}  
],
"UpdateLicenseSpecificationsForResource":{  
  "name":"UpdateLicenseSpecificationsForResource",  
  "http":{  
    "method":"POST",  
    "requestUri":"/",  
  },  
  "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},  
  "output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},  
  "errors": [  
    {"shape":"InvalidParameterValueException"},  
    {"shape":"InvalidResourceStateException"},  
    {"shape":"LicenseUsageException"},  
    {"shape":"ServerInternalException"},  
    {"shape":"AuthorizationException"},  
    {"shape":"AccessDeniedException"},  
    {"shape":"RateLimitExceededException"}  
  ]},
"UpdateServiceSettings":{  
  "name":"UpdateServiceSettings",  
  "http":{  
    "method":"POST",  
    "requestUri":"/",  
  },  
  "input":{"shape":"UpdateServiceSettingsRequest"},  
  "output":{"shape":"UpdateServiceSettingsResponse"},  
  "errors": [  
    {"shape":"InvalidParameterValueException"},  
    {"shape":"ServerInternalException"},  
    {"shape":"AuthorizationException"},  
    {"shape":"AccessDeniedException"},  
    {"shape":"RateLimitExceededException"}  
  ]}
},

"shapes":{  
  "AccessDeniedException":{  
    "type":"structure",  
    "members":{  
      "Message":{"shape":"Message"}  
  
}
"DeleteLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {"shape": "String"}
  }
},
"DeleteLicenseConfigurationResponse": {
  "type": "structure",
  "members": {},
},
"FailedDependencyException": {
  "type": "structure",
  "members": {
    "Message": {"shape": "Message"}
  },
  "exception": true,
  "fault": true
},
"Filter": {
  "type": "structure",
  "members": {
    "Name": {"shape": "FilterName"},
    "Values": {"shape": "FilterValues"}
  }
},
"FilterLimitExceededException": {
  "type": "structure",
  "members": {
    "Message": {"shape": "Message"}
  },
  "exception": true
},
"FilterName": {"type": "string"},
"FilterValue": {"type": "string"},
"FilterValues": {
  "type": "list",
  "member": {"shape": "FilterValue"}
},
"Filters": {
  "type": "list",
  "member": {"shape": "Filter"}
},
"GetLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {"LicenseConfigurationArn": {"shape": "String"}}
}
"LicenseConfigurationArn": {"shape": "String"}

"GetLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurationId": {"shape": "String"},
    "LicenseConfigurationArn": {"shape": "String"},
    "Name": {"shape": "String"},
    "Description": {"shape": "String"},
    "LicenseCountingType": {"shape": "LicenseCountingType"},
    "LicenseRules": {"shape": "StringList"},
    "LicenseCount": {"shape": "BoxLong"},
    "LicenseCountHardLimit": {"shape": "BoxBoolean"},
    "ConsumedLicenses": {"shape": "BoxLong"},
    "Status": {"shape": "String"},
    "OwnerAccountId": {"shape": "String"},
    "ConsumedLicenseSummaryList": {"shape": "ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList": {"shape": "ManagedResourceSummaryList"},
    "Tags": {"shape": "TagList"}
  }
}

"GetServiceSettingsRequest": {
  "type": "structure",
  "members": {
  }
}

"GetServiceSettingsResponse": {
  "type": "structure",
  "members": {
    "S3BucketArn": {"shape": "String"},
    "SnsTopicArn": {"shape": "String"},
    "OrganizationConfiguration": {"shape": "OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery": {"shape": "BoxBoolean"}
  }
}

"InvalidParameterValueException": {
  "type": "structure",
  "members": {
    "Message": {"shape": "Message"}
  },
  "exception": true,
  "synthetic": true
}

"InvalidResourceStateException": {
  "type": "structure",
  "members": {
    "Message": {"shape": "Message"}
  }
}
"InventoryFilter":{
    "type":"structure",
    "required":[
        "Name",
        "Condition"
    ],
    "members":{
        "Name":{"shape":"String"},
        "Condition":{"shape":"InventoryFilterCondition"},
        "Value":{"shape":"String"}
    }
},
"InventoryFilterCondition":{
    "type":"string",
    "enum":[
        "EQUALS",
        "NOT_EQUALS",
        "BEGINS_WITH",
        "CONTAINS"
    ]
},
"InventoryFilterList":{
    "type":"list",
    "member":{"shape":"InventoryFilter"}
},
"LicenseConfiguration":{
    "type":"structure",
    "members":{
        "LicenseConfigurationId":{"shape":"String"},
        "LicenseConfigurationArn":{"shape":"String"},
        "Name":{"shape":"String"},
        "Description":{"shape":"String"},
        "LicenseCountingType":{"shape":"LicenseCountingType"},
        "LicenseRules":{"shape":"StringList"},
        "LicenseCount":{"shape":"BoxLong"},
        "LicenseCountHardLimit":{"shape":"BoxBoolean"},
        "ConsumedLicenses":{"shape":"BoxLong"},
        "Status":{"shape":"String"},
        "OwnerAccountId":{"shape":"String"},
        "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
        "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"}
    }
},
"LicenseConfigurationAssociation":{
    "type":"structure",
    "required":[]
}
"members":{
  "ResourceArn":"String",
  "ResourceType":"ResourceType",
  "ResourceOwnerId":"String",
  "AssociationTime":"DateTime"
}
},
"LicenseConfigurationAssociations":{
  "type":"list",
  "member":"LicenseConfigurationAssociation"
},
"LicenseConfigurationStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
    "ResourceArn":"String",
    "ResourceType":"ResourceType",
    "ResourceOwnerId":"String",
    "AssociationTime":"DateTime",
    "ConsumedLicenses":"BoxLong"
  }
},
"LicenseConfigurationUsageList":{
  "type":"list",
  "member":"LicenseConfigurationUsage"
},
"LicenseConfigurations":{
  "type":"list",
  "member":"LicenseConfiguration"
},
"LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseSpecification":{
  "type":"structure"
"required": ["LicenseConfigurationArn"],
"members": {
  "LicenseConfigurationArn": {"shape": "String"}
}
},

"LicenseSpecifications": {
  "type": "list",
  "member": {"shape": "LicenseSpecification"}
},

"LicenseUsageException": {
  "type": "structure",
  "members": {
    "Message": {"shape": "Message"}
  },
  "exception": true
},

"ListAssociationsForLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {"shape": "String"},
    "MaxResults": {"shape": "BoxInteger"},
    "NextToken": {"shape": "String"}
  }
},

"ListAssociationsForLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurationAssociations": {"shape": "LicenseConfigurationAssociations"},
    "NextToken": {"shape": "String"}
  }
},

"ListLicenseConfigurationsRequest": {
  "type": "structure",
  "members": {
    "LicenseConfigurationArns": {"shape": "StringList"},
    "MaxResults": {"shape": "BoxInteger"},
    "NextToken": {"shape": "String"},
    "Filters": {"shape": "Filters"}
  }
},

"ListLicenseConfigurationsResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurations": {"shape": "LicenseConfigurations"},
    "NextToken": {"shape": "String"}
  }
}
"ListLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required": ["ResourceArn"],
  "members": {
    "ResourceArn": {"shape": "String"},
    "MaxResults": {"shape": "BoxInteger"},
    "NextToken": {"shape": "String"}
  }
},

"ListLicenseSpecificationsForResourceResponse":{
  "type": "structure",
  "members": {
    "LicenseSpecifications": {"shape": "LicenseSpecifications"},
    "NextToken": {"shape": "String"}
  }
},

"ListResourceInventoryRequest":{
  "type": "structure",
  "members": {
    "MaxResults": {"shape": "BoxInteger"},
    "NextToken": {"shape": "String"},
    "Filters": {"shape": "InventoryFilterList"}
  }
},

"ListResourceInventoryResponse":{
  "type": "structure",
  "members": {
    "ResourceInventoryList": {"shape": "ResourceInventoryList"},
    "NextToken": {"shape": "String"}
  }
},

"ListTagsForResourceRequest":{
  "type": "structure",
  "required": ["ResourceArn"],
  "members": {
    "ResourceArn": {"shape": "String"}
  }
},

"ListTagsForResourceResponse":{
  "type": "structure",
  "members": {
    "Tags": {"shape": "TagList"}
  }
},

"ListUsageForLicenseConfigurationRequest":{
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {

"LicenseConfigurationArn":{"shape":"String"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"},
"Filters":{"shape":"Filters"}
}
}
"ListUsageForLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationUsageList":{"shape":"LicenseConfigurationUsageList"},
"NextToken":{"shape":"String"}
}
}
,"ManagedResourceSummary":{
"type":"structure",
"members":{
"ResourceType":{"shape":"ResourceType"},
"AssociationCount":{"shape":"BoxLong"}
}
}
,"ManagedResourceSummaryList":{
"type":"list",
"member":{"shape":"ManagedResourceSummary"}
}
,"Message":{"type":"string"},
"OrganizationConfiguration":{
"type":"structure",
"required":["EnableIntegration"],
"members":{
"EnableIntegration":{"shape":"Boolean"}
}
},
"RateLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"ResourceInventory":{
"type":"structure",
"members":{
"ResourceId":{"shape":"String"},
"ResourceType":{"shape":"ResourceType"},
"ResourceArn":{"shape":"String"},
"Platform":{"shape":"String"},
"PlatformVersion":{"shape":"String"},
"ResourceOwningAccountId":{"shape":"String"}
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI"
  ]
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true,
  "fault":true
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
}
"TagResourceRequest": {
  "type": "structure",
  "required": [
    "ResourceArn",
    "Tags"
  ],
  "members": {
    "ResourceArn": {"shape": "String"},
    "Tags": {"shape": "TagList"}
  }
},
"TagResourceResponse": {
  "type": "structure",
  "members": {}
},
"UntagResourceRequest": {
  "type": "structure",
  "required": [
    "ResourceArn",
    "TagKeys"
  ],
  "members": {
    "ResourceArn": {"shape": "String"},
    "TagKeys": {"shape": "TagKeyList"}
  }
},
"UntagResourceResponse": {
  "type": "structure",
  "members": {}
},
"UpdateLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {"shape": "String"},
    "LicenseConfigurationStatus": {"shape": "LicenseConfigurationStatus"},
    "LicenseRules": {"shape": "StringList"},
    "LicenseCount": {"shape": "BoxLong"},
    "LicenseCountHardLimit": {"shape": "BoxBoolean"},
    "Name": {"shape": "String"},
    "Description": {"shape": "String"}
  }
},
"UpdateLicenseConfigurationResponse": {
  "type": "structure",
"members":{
}
},
"UpdateLicenseSpecificationsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{"shape":"String"},
"AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
"RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
}
},
"UpdateLicenseSpecificationsForResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateServiceSettingsRequest":{
"type":"structure",
"members":{
"S3BucketArn":{"shape":"String"},
"SnsTopicArn":{"shape":"String"},
"OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
"EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{
}
}
}

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{  
  "version": "2.0",
  "service": 
    "<fullname> AWS License Manager </fullname> <p> <i>This is the AWS License Manager API Reference.</i> It provides descriptions, syntax, and usage examples for each of the actions and data types for License Manager. The topic for each action shows the Query API request parameters and the XML response. You can also view the XML request elements in the WSDL. </p> <p> Alternatively, you can use one of the AWS SDKs to access an API that's tailored to the programming language or platform that you're using. For more information, see <a href="http://aws.amazon.com/tools/#SDKs">AWS SDKs</a>.</p> "

  "operations": {
    "CreateLicenseConfiguration": "<p>Creates a new license configuration object. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or VCPU), tenancy (shared tenancy, Amazon EC2 Dedicated Instance, Amazon EC2 Dedicated Host, or any of these), host affinity (how long a VM must be associated with a host), the number of licenses purchased and used.</p>",
    "DeleteLicenseConfiguration": "<p>Deletes an existing license configuration. This action fails if the configuration is in use.</p>",
    "GetLicenseConfiguration": "<p>Returns a detailed description of a license configuration.</p>",
    "GetServiceSettings": "<p>Gets License Manager settings for a region. Exposes the configured S3 bucket, SNS topic, etc., for inspection.</p>",
    "ListAssociationsForLicenseConfiguration": "<p>Lists the resource associations for a license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance may not consume a license (depending on the license rules). Use this operation to find all resources associated with a license configuration.</p>",
    "ListLicenseConfigurations": "<p>Lists license configuration objects for an account, each containing the name, description, license type, and other license terms modeled from a license agreement.</p>",
    "ListLicenseSpecificationsForResource": "<p>Returns the license configuration for a resource.</p>",
    "ListResourceInventory": "<p>Returns a detailed list of resources.</p>",
    "ListTagsForResource": "<p>Lists tags attached to a resource.</p>",
    "ListUsageForLicenseConfiguration": "<p>Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.</p>",
    "TagResource": "<p>Attach one of more tags to any resource.</p>",
    "UntagResource": "<p>Remove tags from a resource.</p>",
    "UpdateLicenseConfiguration": "<p>Modifies the attributes of an existing license configuration object. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (Instances, cores, sockets, VCPUs), tenancy

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(shared or Dedicated Host), host affinity (how long a VM is associated with a host), the number of licenses purchased and used.

"UpdateLicenseSpecificationsForResource": "<p>Adds or removes license configurations for a specified AWS resource. This operation currently supports updating the license specifications of AMIs, instances, and hosts. Launch templates and AWS CloudFormation templates are not managed from this operation as those resources send the license configurations directly to a resource creation operation, such as <code>RunInstances</code>.</p>",

"UpdateServiceSettings": "<p>Updates License Manager service settings.</p>"},

"shapes": {
  "AccessDeniedException": {
    "base": "<p>Access to resource denied.</p>",
    "refs": {
    }
  },
  "AuthorizationException": {
    "base": "<p>The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.</p>",
    "refs": {
    }
  },
  "Boolean": {
    "base": null,
    "refs": {
      "OrganizationConfiguration$EnableIntegration": "<p>Flag to activate AWS Organization integration.</p>"
    }
  },
  "BoxBoolean": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>Flag indicating whether hard or soft license enforcement is used. Exceeding a hard limit results in the blocked deployment of new instances.</p>",
      "GetLicenseConfigurationResponse$LicenseCountHardLimit": "<p>Sets the number of available licenses as a hard limit.</p>",
      "GetServiceSettingsResponse$EnableCrossAccountsDiscovery": "<p>Indicates whether cross-account discovery has been enabled.</p>",
      "LicenseConfiguration$LicenseCountHardLimit": "<p>Sets the number of available licenses as a hard limit.</p>",
      "UpdateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>Sets the number of available licenses as a hard limit.</p>",
      "UpdateServiceSettingsRequest$EnableCrossAccountsDiscovery": "<p>Activates cross-account discovery.</p>"
    }
  },
  "BoxInteger": {
    "base": null,
    "refs": {
      "ListAssociationsForLicenseConfigurationRequest$MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code>"
"Filter$Name": "<p>Name of the filter. Filter names are case-sensitive.</p>"}
], "FilterValue": {
"base": null,
"refs": {
"FilterValues$member": null
}
}, "FilterValues": {
"base": null,
"refs": {
"Filter$Values": "<p>One or more filter values. Filter values are case-sensitive.</p>"
}
}, "Filters": {
"base": null,
"refs": {
"ListLicenseConfigurationsRequest$Filters": "<p>One or more filters.</p>",
"ListUsageForLicenseConfigurationRequest$Filters": "<p>List of filters to apply.</p>"
}
}, "GetLicenseConfigurationRequest": {
"base": null,
"refs": {
}
}, "GetLicenseConfigurationResponse": {
"base": null,
"refs": {
}
}, "GetServiceSettingsRequest": {
"base": null,
"refs": {
}
}, "GetServiceSettingsResponse": {
"base": null,
"refs": {
}
}, "InvalidParameterValueException": {
"base": "<p>One or more parameter values are not valid.</p>",
"refs": {
}
}, "InvalidResourceStateException": {
License Manager cannot allocate a license to a resource because of its state. For example, you cannot allocate a license to an instance in the process of shutting down.

An inventory filter object.

The condition of the filter.

One or more filters.

A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or VCPU), tenancy (shared tenancy, Amazon EC2 Dedicated Instance, Amazon EC2 Dedicated Host, or any of these), host affinity (how long a VM must be associated with a host), the number of licenses purchased and used.

Describes a server resource that is associated with a license configuration.

Lists association objects for the license configuration, each containing the association time, number of consumed licenses, resource ARN, resource ID, account ID that owns the resource, resource size, and resource type.
"base": null,
"refs": {
"UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": "<p>New status of the license configuration (<code>ACTIVE</code> or <code>INACTIVE</code>).</p>"
}
},
"LicenseConfigurationUsage": {
"base": "<p>Contains details of the usage of each resource from the license pool.</p>",
"refs": {
"LicenseConfigurationUsageList$member": null
}
},
"LicenseConfigurationUsageList": {
"base": null,
"refs": {
"ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": "<p>An array of <code>LicenseConfigurationUsage</code> objects.</p>"
}
},
"LicenseConfigurations": {
"base": null,
"refs": {
"ListLicenseConfigurationsResponse$LicenseConfigurations": "<p>Array of license configuration objects.</p>"
}
},
"LicenseCountingType": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseCountingType": "<p>Dimension to use to track the license inventory.</p>",
"GetLicenseConfigurationResponse$LicenseCountingType": "<p>Dimension on which the licenses are counted (for example, instances, cores, sockets, or VCPUs).</p>",
"LicenseConfiguration$LicenseCountingType": "<p>Dimension to use to track license inventory.</p>"
}
},
"LicenseSpecification": {
"base": "<p>Object used for associating a license configuration with a resource.</p>",
"refs": {
"LicenseSpecifications$member": null
}
},
"LicenseSpecifications": {
"base": null,
"refs": {
"ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": "<p>License configurations associated with a resource.</p>"
},
"UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": "<p>License configuration
ARNs to be added to a resource.

"UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": "License configuration
ARNs to be removed from a resource."

"LicenseUsageException": {
  "base": "You do not have enough licenses available to support a new resource launch.
  "refs": {
  }
  },

"ListAssociationsForLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
  },

"ListAssociationsForLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
  },

"ListLicenseConfigurationsRequest": {
  "base": null,
  "refs": {
  }
  },

"ListLicenseConfigurationsResponse": {
  "base": null,
  "refs": {
  }
  },

"ListLicenseSpecificationsForResourceRequest": {
  "base": null,
  "refs": {
  }
  },

"ListLicenseSpecificationsForResourceResponse": {
  "base": null,
  "refs": {
  }
  },

"ListResourceInventoryRequest": {
  "base": null,
  "refs": {
  }
  },

"ListResourceInventoryResponse": {
  "base": null,
  "refs": {
  }
  }
"base": "The server experienced an internal error. Try again.",
"refs": []
}
"String": []
"base": null,
"refs": [
"CreateLicenseConfigurationRequest$Name": "Name of the license configuration.",
"CreateLicenseConfigurationRequest$Description": "Human-friendly description of the license configuration.",
"CreateLicenseConfigurationResponse$LicenseConfigurationArn": "ARN of the license configuration object after its creation.",
"DeleteLicenseConfigurationRequest$LicenseConfigurationArn": "Unique ID of the configuration object to delete.",
"GetLicenseConfigurationRequest$LicenseConfigurationArn": "ARN of the license configuration being requested.",
"GetLicenseConfigurationResponse$LicenseConfigurationId": "Unique ID for the license configuration.",
"GetLicenseConfigurationResponse$LicenseConfigurationArn": "ARN of the license configuration requested.",
"GetLicenseConfigurationResponse$Name": "Name of the license configuration.",
"GetLicenseConfigurationResponse$Description": "Description of the license configuration.",
"GetLicenseConfigurationResponse$Status": "License configuration status (active, etc.).",
"GetLicenseConfigurationResponse$OwnerAccountId": "Owner account ID for the license configuration.",
"GetServiceSettingsResponse$S3BucketArn": "Regional S3 bucket path for storing reports, license trail event data, discovery data, etc.",
"GetServiceSettingsResponse$SnsTopicArn": "SNS topic configured to receive notifications from License Manager.",
"InventoryFilter$Name": "The name of the filter.",
"InventoryFilter$Value": "Value of the filter.",
"LicenseConfiguration$LicenseConfigurationId": "Unique ID of the license configuration object.",
"LicenseConfiguration$LicenseConfigurationArn": "ARN of the license configuration object.",
"LicenseConfiguration$Name": "Name of the license configuration.",
"LicenseConfiguration$Description": "Description of the license configuration.",
"LicenseConfiguration$Status": "Status of the license configuration.",
"LicenseConfiguration$OwnerAccountId": "Account ID of the license configuration's owner.",
"LicenseConfigurationAssociation$ResourceArn": "ARN of the resource associated with the license configuration.",
"LicenseConfigurationAssociation$ResourceOwnerId": "ID of the AWS account that owns the resource consuming licenses.",
"LicenseConfigurationUsage$ResourceArn": "ARN of the resource associated with a license configuration.",
"LicenseConfigurationUsage$ResourceStatus": "Status of a resource associated with the license configuration.",
"LicenseConfigurationUsage$ResourceOwnerId": "ID of the account that owns a resource that is associated
with the license configuration.</p>"
    "LicenseSpecification$LicenseConfigurationArn": "<p>ARN of the <code>LicenseConfiguration</code> object.</p>"
    "ListAssociationsForLicenseConfigurationRequest$LicenseConfigurationArn": "<p>ARN of a <code>LicenseConfiguration</code> object.</p>"
    "ListAssociationsForLicenseConfigurationRequest$NextToken": "<p>Token for the next set of results.</p>"
    "ListAssociationsForLicenseConfigurationResponse$NextToken": "<p>Token for the next set of results.</p>"
    "ListLicenseConfigurationsRequest$NextToken": "<p>Token for the next set of results.</p>"
    "ListLicenseConfigurationsResponse$NextToken": "<p>Token for the next set of results.</p>"
    "ListLicenseSpecificationsForResourceRequest$ResourceArn": "<p>ARN of an AMI or Amazon EC2 instance that has an associated license configuration.</p>"
    "ListLicenseSpecificationsForResourceRequest$NextToken": "<p>Token for the next set of results.</p>"
    "ListLicenseSpecificationsForResourceResponse$NextToken": "<p>Token for the next set of results.</p>"
    "ListResourceInventoryRequest$NextToken": "<p>Token for the next set of results.</p>"
    "ListResourceInventoryResponse$NextToken": "<p>Token for the next set of results.</p>"
    "ListTagsForResourceRequest$ResourceArn": "<p>Resource of the ARN to be tagged.</p>"
    "ListUsageForLicenseConfigurationRequest$LicenseConfigurationArn": "<p>ARN for a license configuration.</p>"
    "ListUsageForLicenseConfigurationRequest$NextToken": "<p>Token for the next set of results.</p>"
    "ListUsageForLicenseConfigurationResponse$NextToken": "<p>Token for the next set of results.</p>"
    "ResourceInventory$ResourceId": "<p>Unique ID of the resource.</p>"
    "ResourceInventory$ResourceArn": "<p>The ARN of the resource.</p>"
    "ResourceInventory$Platform": "<p>The platform of the resource.</p>"
    "ResourceInventory$PlatformVersion": "<p>Platform version of the resource in the inventory.</p>"
    "ResourceInventory$ResourceOwningAccountId": "<p>Unique ID of the account that owns the resource.</p>"
    "StringList$member": null,
    "Tag$Key": "<p>Key for the resource tag.</p>"
    "Tag$Value": "<p>Value for the resource tag.</p>"
    "TagKeyList$member": null,
    "TagResourceRequest$ResourceArn": "<p>Resource of the ARN to be tagged.</p>"
    "UntagResourceRequest$ResourceArn": "<p>ARN of the resource.</p>"
    "UpdateLicenseConfigurationRequest$LicenseConfigurationArn": "<p>ARN for a license configuration.</p>"
    "UpdateLicenseConfigurationRequest$Name": "<p>New name of the license configuration.</p>"
    "UpdateLicenseConfigurationRequest$Description": "<p>New human-friendly description of the license configuration.</p>"
    "UpdateLicenseSpecificationRequest$LicenseArn": "<p>ARN for an AWS server resource.</p>"
    "UpdateServiceSettingsRequest$S3BucketArn": "<p>ARN of the Amazon S3 bucket where License Manager information is stored.</p>"
    "UpdateServiceSettingsRequest$SnsTopicArn": "<p>ARN of the Amazon SNS topic used for License Manager alerts.</p>"
}
rules.<p>
"LicenseConfiguration$LicenseRules": "<p>Array of configured License Manager rules.</p>",
"ListLicenseConfigurationsRequest$LicenseConfigurationArns": "<p>An array of ARNs for the calling accounts license configurations.</p>",
"UpdateLicenseConfigurationRequest$LicenseRules": "<p>List of flexible text strings designating license rules.</p>"
}
},
"Tag": {
"base": "<p>Tag for a resource in a key-value format.</p>",
"refs": {
 "TagList$member": null
 }
},
"TagKeyList": {
"base": null,
"refs": {
 "UntagResourceRequest$TagKeys": "<p>List keys identifying tags to remove.</p>"
 }
},
"TagList": {
"base": null,
"refs": {
 "CreateLicenseConfigurationRequest$Tags": "<p>The tags to apply to the resources during launch. You can only tag instances and volumes on launch. The specified tags are applied to all instances or volumes that are created during launch. To tag a resource after it has been created, see CreateTags.</p>",
 "GetLicenseConfigurationResponse$Tags": "<p>List of tags attached to the license configuration.</p>",
 "ListTagsForResourceResponse$Tags": "<p>List of tags attached to the resource.</p>",
 "TagResourceRequest$Tags": "<p>Names of the tags to attach to the resource.</p>"
 }
},
"TagResourceRequest": {
"base": null,
"refs": {
 }},
"TagResourceResponse": {
"base": null,
"refs": {
 }},
"UntagResourceRequest": {
"base": null,
"refs": {
 }},
"UntagResourceResponse": {
"base": null,
"refs": { }
},
"UpdateLicenseConfigurationRequest": { 
"base": null,
"refs": { }
},
"UpdateLicenseConfigurationResponse": { 
"base": null,
"refs": { }
},
"UpdateLicenseSpecificationsForResourceRequest": { 
"base": null,
"refs": { }
},
"UpdateLicenseSpecificationsForResourceResponse": { 
"base": null,
"refs": { }
},
"UpdateServiceSettingsRequest": { 
"base": null,
"refs": { }
},
"UpdateServiceSettingsResponse": { 
"base": null,
"refs": { }
}

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1.2572 libsodium 1.0.18
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## Commands to generate dependency files 
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS) 
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS) 

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

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

## Compiler switch to embed a runtime search path 
LD_RPATH= 
LD_RPATH_PRE=-Wl,-rpath, 

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

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

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n| sed "\(^\$\(.*\)\.o[ ]*: )*\(.*\)\.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) $@

## Bind internal references

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

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

## Remove shared library `s`
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
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1.2579 openssl 1.1.1l

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# Protocol::HTTP
Provides abstractions for working with the HTTP protocol.

Add this line to your application's Gemfile:

```ruby
```ruby
gem 'protocol-http'
```ruby
```

And then execute:

```
$ bundle
```

Or install it yourself as:

```
$ gem install protocol-http
```

## Usage

### Headers

```ruby
```ruby
require 'protocol/http/headers'
```ruby
```

headers = Protocol::HTTP::Headers.new

headers['Content-Type'] = "image/jpeg"

headers['content-type'] # => "image/jpeg"

```ruby
```ruby
```

### Reference

```ruby
```ruby
require 'protocol/http/reference'
```ruby
```

reference = Protocol::HTTP::Reference.new("/search", q: 'kittens')

reference.to_s # => "/search?q=kittens"

```ruby
```ruby
```ruby
```ruby
```ruby
```ruby
```ruby
```ruby
### URL

```ruby
require 'protocol/http/url'

reference = Protocol::HTTP::Reference.parse("/search?q=kittens")

parameters = Protocol::HTTP::URL.decode(reference.query_string)
# => {"q"=>"kittens"}
```

## Contributing

1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (`git commit -am 'Add some feature'`)
4. Push to the branch (`git push origin my-new-feature`)
5. Create new Pull Request

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1.2585 aec v1.0.0

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1.2586 aes-js 3.1.2

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1.2587 github.com/cyphar/filepath-securejoin

0.2.2

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1.2588 http-signature 1.2.0

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1.2589 influxdb 0.0.0-20190102202943-dd481f35df2c

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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

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 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
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 |

@series.hirsute
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>
</tr>
</thead>
<tbody>
<tr>
<td>hirsute</td>
</tr>
</tbody>
</table>

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 |

@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 |

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Version 3, 29 June 2007

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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
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-networkd.service ua-auto-attach.service

[Service]
Type=oneshot
1.2591 logback-json-core 0.1.5
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## 1.2593 json-iterator-go 1.1.8

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## 1.2594 keyutils 1.5.9-9.2ubuntu2

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Version 2.1, February 1999


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1.2600 cli-table3 0.6.0

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1.2601 apacheutils 2.4.29-1ubuntu4.14

1.2601.1 Available under license:
Apache-Test was originally developed by:

Doug MacEachern <dougm@cpan.org>

Now maintained by:

Fred Moyer <fred@redhotpenguin.com>
Philip M. Gollucci <pgollucci@p6m7g8.com>

with contributions from the following helpful people
(in alphabetical order):

Alessandro Forghieri <Alessandro.Forghieri@think3.com>
David Wheeler <david@kineticode.com>
Gary Benson <gbenson@redhat.com>
Geoffrey Young <geoff@modperlcookbook.org>
Ken Williams <ken@forum.swarthmore.edu>
Randy Kobes <randy@theoryx5.uwinnipeg.ca>
Rick Myers <rik@sumthin.nu>
Stas Bekman <stas@stason.org>
Steve Hay <steve.hay@uk.radan.com>
Steve Piner <stevep@marketview.co.nz>
Tatsuhiko Miyagawa <miyagawa@edge.co.jp>

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License: PCRE

This is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language. See
the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3 of imagemap.c.

Contributors to this code include:

- Kevin Hughes, kevinh@pulua.hcc.hawaii.edu
- Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com
Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
  - ImapMenu {none, formatted, semiformalized, unformatted}
  - ImapDefault {error, nocontent, referer, menu, URL}
  - ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
  - Old: directive URL [x.y ...]
  - New: directive URL "Menu text" [x.y ...]
or: directive URL x.y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked
list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation July/August 1996
Misc bug fixes May 1997
Submission to Apache Software Foundation July 1997

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org.eclipse.jetty.toolchain:jetty-schemas

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test:

package cloud

import (  "bytes"  "io/ioutil"  "os"  "path/filepath"  "strings"  "testing" )
var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }
        if err != nil {
            t.Fatal(err)
        }
    })
}
1.2619 ajv 6.12.6
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- Copy files to and from Containers in a cluster

# 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

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

{% method %}

## 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>`\`

{% sample lang="yaml" %}
```
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
{% endmethod %}

{% method %}

## 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>`\`

{% sample lang="yaml" %}
```
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
{% endmethod %}

{% method %}

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `\`-c <container-name>`\`

{% sample lang="yaml" %}
```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

### Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/` .

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

---

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

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.
Copying-policy: BeerWare: If you have the time and money, send me a bottle
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1.2633 golang-org-x-sys v0.0.0-
20210225134936-a50acf3fe073
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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Jensen <jensen.aaro@gmail.com>
Alexander F Rdseth <alexander.rodseth@appeartv.com>
Alexander Greim <alexxx@iltempo.de>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Klauer <Alexander.Klauer@googlemail.com>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Louer <sml@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Nohe <alex.nohe427@gmail.com>
Alexander Orlov <alexander.orlov@loval.net>
Alexander Pantyukhin <apantyukhin@gmail.com>
Alexander Polcyn <apolcyn@google.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandreviau.net>
Alexandru Mooi <brtzsnr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalexand@yandex.com>
Alexey Borzenkov <smaury@gmail.com>
Alexey Naidonov <alexey.naidyonov@gmail.com>
Alexey Neganov <neganova.alexey@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexey Semenyuk <alexsemenyuk88@gmail.com>
Alexey Vilenskiy <brynghack@gmail.com>
Alexis Hildebrandt <surrhill@gmail.com>
Alexis Hunt <lexer@gmail.com>
Alexis Imperial-Legrand <ail@google.com>
Ali Farooq <ali.farooq0@pm.me>
Ali Rizvi-Santiago <arizvisa@gmail.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alice Merrick <amerrick@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Allan Guwatudde <guwats10@gmail.com>
Allan Simon <allan.simon@supinfo.com>
Allen Li <ayatane@gmail.com>
Eric Wang <wangchaogo1990@gmail.com>
Erick Tryzelaar <etryzelaar@gmail.com>
Erik Aigner <aigner.erik@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@gmail.com>
Erik Westrup <erik.westrup@gmail.com>
Erin Masatsugu <erin.masatsugu@gmail.com>
Ernest Chiang <ernest_chiang@htc.com>
Erwin Oegema <blabaechthem@hotmail.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eburns@gmail.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <euanke@gmail.com>
Eugene Formanenko <m04islona@gmail.com>
Eugene Kalinin <e.v.kalinin@gmail.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@gmail.com>
Evan Digby <evandigby@gmail.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Evan Kitzke <evan@ekitzke.org>
Evan Kroske <evankroske@gmail.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Kulikov <tuxuls@gmail.com>
Evgeniy Polyakov <zbr@ioremap.net>
Ewan Chou <coocood@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedff@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fshahriar@gmail.com>
Federico Bond <federicobond@gmail.com>
Federico Guerinoni <guerinoni.federico@gmail.com>
Federico Simoncelli <fsimonce@redhat.com>
Fedor Indutny <fedor@indutny.com>
Fedor Korotkiy <dartslon@gmail.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
GitHub User @encal (23520240) <flycalvin@qq.com>
GitHub User @DQNEO (188741) <dqneoo@gmail.com>
GitHub User @Dreamacro (8615343) <chuainian@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @EndlessCheng (7086966) <loli.con@qq.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @fatedier (7346661) <fatedier@gmail.com>
GitHub User @frennie (6499251) <mail@rhab.de>
GitHub User @gedechin (11672310) <gedechin@gmail.com>
GitHub User @GregorImikhalkin (3637857) <gregorimikhalkin@gmail.com>
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>
GitHub User @hitzhangjie (3725760) <hit.zhangjie@gmail.com>
GitHub User @hqpko (13887251) <whaihin01@hotmail.com>
GitHub User @itchyn (375258) <itchyn@hatena.ne.jp>
GitHub User @jinmioluo (39730824) <jinmioluo@icloud.com>
GitHub User @jopbrown (6345470) <msshan2008@gmail.com>
GitHub User @kazyshr (30496953) <kazyshr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.githubusercontent.com>
GitHub User @komisan19 (18901496) <komiyama6219@gmail.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @lhl2617 (33488131) <l.h.lee2617@gmail.com>
GitHub User @linguohua (3434367) <lgkhinaideea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @markruler (38225900) <csu0414@gmail.com>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micncim (21333876) <micncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.githubusercontent.com>
GitHub User @nu50218 (40682920) <nu_Il@icloud.com>
GitHub User @OlgaVPetrova (44112727) <OVPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @povsister (11040951) <pov@mahou-shoujo.moe>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @qcrao (7698088) <qcrao91@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @SataQiu (9354727) <shidaqiu2018@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @sivchari (55221074) <shibuuuu5@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @soolaugust (10558124) <soolaugust@gmail.com>
GitHub User @surechen (7249331) <surechen17@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uji (49834542) <uji@users.noreply.github.com>
GitHub User @unbyte (5772358) <i@shangyes.net>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @wolf1996 (5901874) <ksgiv37@gmail.com>
GitHub User @yah0l (12216890) <kagaminehuan@gmail.com>
GitHub User @yuannhh (1298735) <yuannhh@gmail.com>
GitHub User @ziakaeroh (48577114) <ziakaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Grace Han <grace503@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Green Lightning <GreenLightning.git@googlemail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@youtube.com>
Greg Thelen <gthelen@gmail.com>
Greg Ward <greg@erg.ca>
Grgoire Delattre <grgoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Gregory Petrosyan <gregory.petrosyan@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustostg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guilherme Souza <32180229+gggs@users.noreply.github.com>
Guillaume J. Charmes <guillaume.charmes.net>
Guillaume Sottas <guillaumesottas@gmail.com>
Gntther Noack <gnoack@gmail.com>
Guobiao Mei <meiguobiao@gmail.com>
Guodong Li <guodongli@gmail.com>
Guoliang Wang <siamgwliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavorfranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwen.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
HAMANO Tsukasa <hamano@osstech.co.jp>
Han-Wen Nienhuys <hanwen@google.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hallazzang@gmail.com>
Hanlin He <hanling.he@gmail.com>
Hanlin Shi <shihanlin9@gmail.com>
Haoran Luo <haoran.luo@chaitin.com>
Haosdent Huang <haosdent@gmail.com>
Harald Nordgren <haraldnordgren@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Hariharan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <moreno149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hasan Ozgan <hasan@ozgan.net>
Hasit Bhatt <hasit.p.bhatt@gmail.com>
Hauke Lffler <shloeffler@users.noreply.github.com>
Hvard Haugen <havard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Hein Khant Zaw <heinkhantzaw1@gmail.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henrique Vicente <henriquevicente@gmail.com>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyu@heng@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Henry Wong <liushuai.wang@elastic.co>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@google.com>
Heschi Kreinick <heschi@google.com>
Hidetatsu Yaginuma <ygnmhdt@gmail.com>
Hilko Bengen <bengen@hilluzination.de>
Himanshu Krishna Srivastava <28himanshu@gmail.com>
Hiroaki Nakamura <hnakamura@gmail.com>
Hiromichi Ema <ema.hiro@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <ttyh061@gmail.com>
Open Source Used In SMI 2021.01.0-Jan-2022  27800
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@google.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Mahdi Hosseini Moghaddam <seyed.mahdi.hosseini.moghaddam@ibm.com>
Maia Lee <maia.lee@leftfieldlabs.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishmail@gmail.com>
Manlio Perillo <manlio.perillo@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <ne0@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanmiquel <marcsanmiquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Gazerro <gazerro@open2b.com>
Marco Hennings <marco.hennings@freiheit.com>
Marcus Weiner <marcus.weiner@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@graalbio.com>
Marius Nuennerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbuce@gmail.com>
Mark Dain <mark@markdain.net>
Mark Glines <mark@glines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@m.d.pm>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <ndbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@gmail.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Masurka <masurka@gmail.com>
Matt Pearring <broskies@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@gmail.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt.git@gmail.com>
Matthew Horsnell <matt.matt@skyport.com>
Matthew Waters <mwwaters@gmail.com>
Matthias Frei <matthias.frei@inf.ethz.ch>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@ stdin.nl>
Mattias Appelgren <mattias@ppelgren.se>
Mauricio Alvarado <mauricio.alvarado@leftfieldlabs.com>
Max Drosdo. www <g1ran1q@gmail.com>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenik <maxsemen.wiki@gmail.com>
Max Ushakov <ushmax@gmail.com>
Maxim Eryomenko <moeryomenko@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@gmail.com>
Maxim Pugachev <pugachev.mm@gmail.com>
Maxim Ushakov <ushakov@gmail.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mxcuadros@gmail.com>
Noah Goldman <noahg34@gmail.com>
Noah Santschi-Cooney <noah@santschi-cooney.ch>
Noble Johnson <noblepoly@gmail.com>
Nodir Turakulov <nodir@google.com>
Noel Georgi <git@frezbo.com>
Norberto Lopes <nlopes.ml@gmail.com>
Norman B. Lancaster <qbradq@gmail.com>
Nuno Cruces <ncruces@users.noreply.github.com>
Obeï Sideg <obeï.sideg@gmail.com>
Obeyda Djeffal <djefobey@gmail.com>
Odin Ugedal <odin@ugedal.com>
Oleg Bulatov <dimage@yandex-team.ru>
Oleg Vakheta <helginet@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Oliver Powell <oliverpowell84@gmail.com>
Oliver Stenbom <ostenbom@pivotal.io>
Oliver Tan <otan@cockroachlabs.com>
Oliver Tonnhofer <olt@bogosoft.com>
Olivier Antoine <olivier.antoine@gmail.com>
Olivier Duperray <duperray.olivier@gmail.com>
Olivier Poitrey <rs@dailymotion.com>
Olivier Saingre <osaingre@gmail.com>
Olivier Wulveryck <olivier.wulveryck@gmail.com>
Omar Jarjur <ojarjur@google.com>
Onkar Jadhav <omjadhav2610@gmail.com>
Ori Bernstein <ori@eigenstate.org>
Ori Rawlings <orirawlings@gmail.com>
Oryan Moshe <iamoryanmoshe@gmail.com>
Osamu TONOMORI <osamingo@gmail.com>
zgr Kesim <oecc-go@kesim.org>
Pablo Caderno <kaderno@gmail.com>
Pablo Lalloni <plalloni@gmail.com>
Pablo Rozas Larraondo <pablo.larraondo@anu.edu.au>
Pablo Santiago Blum de Aguiar <scorphus@gmail.com>
Padraig Kitterick <padraigkitterick@gmail.com>
Pallat Anchaleechemaikorn <yod.pallat@gmail.com>
Pan Chenglong <1004907659@qq.com>
Panos Georgiadis <pgeorgiadis@suse.de>
Pantelis Sampaziotis <psampaz@gmail.com>
Paolo Giarrusso <p.giarrusso@gmail.com>
Paolo Martini <mrtnpaolo@gmail.com>
Parker Moore <parkermoore@gmail.com>
Parminder Singh <parmsingh101@gmail.com>
Pascal Dierich <pascal@pascaldierich.com>
Pascal S. de Kloe <pascal@quies.net>
Paschalis Tsiliás <paschalis.tsilias@gmail.com>
Scott Cotton <scott@mindowl.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Ragan <ragansa@fb.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@gmail.com>
Sean Burford <sburgard@gmail.com>
Sean Chen <ooohcode@gmail.com>
Sean Chittenden <sean@joyent.com>
Sean Christopherson <sean.j christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@gmail.com>
Sean Harrington <sean.harrington@leftfieldlabs.com>
Sean Hildebrand <seanwhildebrand@gmail.com>
Sean Liao <seankhliao@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Chlopecki <sebsebme@gmail.com>
Sebastian Kinne <skinne@google.com>
Sebastian Schmidt <yath@gmail.com>
Sebastien Binet <seb.binet@gmail.com>
Sebastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Lemeshkin <sergeilem@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergei Zagurskii <gvozdoder@gmail.com>
Sergey 'Snake' Gromov <snake.scally@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synergy.ru>
Sergey Frolov <sfrolov@gmail.com>
Sergey Glushchenko <gserge@gmail.com>
Sergey Ivanov <ser1325@gmail.com>
Sergey Kacheev <S.Kacheev@gmail.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhat Giyidiren <serhatgiyidiren@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shaba Abhiram <shabarivas.abhiram@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shailesh Suryawanshi <ss.shailesh28@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shang Jian Ding <ding3@ncsu.edu>
Shaozhen Ding <dsz0111@gmail.com>
Shaquille Que <shaquille@golang.org>
Shaquille Wyan Que <shaqqywyan@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
Shawn Elliott <selliott@microsoft.com>
Shawn Ledbetter <sledbetter@google.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengjing Zhu <zsj950618@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
ShihCheng Tu <mrtoastcheng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shin Fan <shinfan.google.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shinnosuke Sawada <6warashi9@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivani Singhal <shivani.singhal2804@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shivashis Padhi <shivashispadhi@gmail.com>
Shoshin Nikita <shoshin_nikita@fastmail.com>
Shota Sugiuara <ss.sota.710.3506@gmail.com>
Shubham Sharma <shubham.sha12@gmail.com>
Shuhei Takahashi <nya@chromium.org>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simo Gomes Viana <simao@mv@gmail.com>
Simarpreet Singh <simar@linux.com>
Simon Drake <simondrake1990@gmail.com>
Simon Ferquel <simon.ferquel@docker.com>
Simon Frei <freisim93@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Rozman <simon@rozman.si>
Simon Ser <contact@emersion.fr>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
The Hatsune Daishi <nao20010128@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thom Wiggers <thom@thomwiggers.nl>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@google.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@google.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@google.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Symborski <thomas.symborski@gmail.com>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tianji Wu <the729@gmail.com>
Tianon Gravi <admwiggin@gmail.com>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>
Tim Henderson <tim.tadh@gmail.com>
Tim Hockin <thockin@yandex.com>
Tim King <taking@yandex.com>
Tim Mhlmann <muhlemmer@gmail.com>
Tim Swast <swast@yandex.com>
Tim Wright <tenortim@gmail.com>
Tim Xu <xiaoxubeii@gmail.com>
Timmy Douglas <timmyd983@gmail.com>
Timo Savola <timo.savola@gmail.com>
Timo Truys <alkaloid.btx@gmail.com>
Timothy Gu <timothygu99@gmail.com>
Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@yandex.com>
Tiwei Bie <tiwei btw@antgroup.com>
Tobias Assarsson <tobias.assarsson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>
Tobias Klauser <tklauser@distanz.ch>
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Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@gmail.com>
Aaron Jensen <jensen.aaro@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aeciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <phpprogger@gmail.com>
Andrew Jackura <ajackura@google.com>
Andrew Kemm <andrewkemm@gmail.com>
Andrew Louis <alouis@digitalocean.com>
Andrew Lutomirski <andy@luto.us>
Andrew Medvedev <andrew.y.medvedev@gmail.com>
Andrew Pilloud <andrewpilloud@igneoussystems.com>
Andrew Pogrebnoy <sabsound.noise@gmail.com>
Andrew Poydence <apoydence@pivotal.io>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Stormont <astormont@racktopsystems.com>
Andrew Stribblehill <ads@wompom.org>
Andrew Szeto <andrew@jabagawee.com>
Andrew Todd <andrew.todd@wework.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrew Z Allen <me@andrewzallen.com>
Andrey Bokhanko <andreybokhanko@gmail.com>
Andrey Mirtchovski <mirchtovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Pan <panjf2000@gmail.com>
Andy Walker <walkeraj@gmail.com>
Andy Wang <cbeuw.andy@gmail.com>
Andy Williams <andy@andy.xyz>
Andzej Maciusovic <andzej.maciusovic@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Anit Gandhi <anitgandhi@gmail.com>
Ankit Goyal <ankit3goyal@gmail.com>
Anmol Sethi <anmol@aubble.com>
Anirudh Prasad <anirudh@wandb.com>
Anschel Schaffer-Cohen <anschelsc@gmail.com>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony.caninol@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony Fok <foka@debian.org>
Cathal O'Callaghan <cathalsocallaghan@gmail.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
Chad Rosier <mrooser.qdt@qualcommdatacenter.com>
ChaiShushan <chaishushan@gmail.com>
Changkun Ou <hi@changkun.us>
Channing Kimble-Brown <channing@golang.org>
Chao Xu <xuchao@google.com>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <cldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Charlotte Brandhorst-Satzkorn <catzkorn@gmail.com>
Chauncy Cullitan <chauncyc@gmail.com>
Chen Zhidong <njutczd@gmail.com>
Chen Zhihan <energiehund@gmail.com>
Cherry Zhang <cherryyz@gmail.com>
Chew Choon Keat <choonkeat@gmail.com>
Chiwen Chen <golopot@gmail.com>
Chirag Sukhala <chiragr77@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <showeyc@gmail.com>
Chris Hundt <hundt@gmail.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Le Roy <brompwnie@users.noreply.github.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris Marchesi <chris@vanclueverttech.com>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrismit@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Taylor <taylorza@gmail.com>
Chris Waldon <christopher.waldon.dev@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Evan Klitzke <evan@eklitzke.org>
Evan Kroske <evankroske@google.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Kulikov <tuxuls@gmail.com>
Evgeniy Polyakov <zbr@ioremap.net>
Ewan Chou <coocood@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedf@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fshahriar@gmail.com>
Federico Bond <federicobond@gmail.com>
Federico Guerinoni <guerinoni.federico@gmail.com>
Federico Simoncelli <fsimonce@redhat.com>
Fedor Indutny <fedor@indutny.com>
Fedor Korotkiy <dartslon@gmail.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Bnemann <Felix.Buenemann@gmail.com>
Felix Cornelius <9767036+fcornelius@users.noreply.github.com>
Felix Geisendrffer <haimuiba@gmail.com>
Felix Kollmann <fk@konsorten.de>
Ferenc Szabo <frncmx@gmail.com>
Filip Gruszczyski <gruszczy@gmail.com>
Filip Haglund <drathier@users.noreply.github.com>
Filip Stanis <fstanis@google.com>
Filippo Valsorda <filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Forster <octo@google.com>
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>
Florian Weimer <fsw@deneb.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francesco Guardiani <francescoguardi@gmail.com>
Francesco Renzi <rentziass@gmail.com>
Francisco Claude <fclaude@recoded.cl>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gergely Brautigam <karlso777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
Gert Cuykens <gert.cuykens@gmail.com>
Getulio Sanchez <valentin2507@gmail.com>
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>
Gianguido Sora <g.s.sora4@gmail.com>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @aca (50316549) <acadx0@gmail.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
GitHub User @andig (184815) <cpudle@gmx.de>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.UTF8@gmail.com>
GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <aditzer8@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cch123 (384546) <buaa.cch@gmail.com>
GitHub User @chainhelen (7046329) <chainhelen@gmail.com>
GitHub User @cncal (23520240) <lycalvin@qq.com>
GitHub User @DQNEO (188741) <dqneoo@gmail.com>
GitHub User @Dreamacro (8615343) <chuainian@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @fatedier (7346661) <fatedier@gmail.com>
GitHub User @frennkie (6499251) <mail@rhab.de>
GitHub User @geedchin (11672310) <geedchin@gmail.com>
GitHub User @GrigoriyMikhalkin (3637857) <grigoriymikhalkin@gmail.com>
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>
GitHub User @hitzhangjie (3725760) <hit.zhangjie@gmail.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jimiaoluo (39730824) <jimiaoluo@icloud.com>
GitHub User @jopbrown (6345470) <smsshane2008@gmail.com>
GitHub User @kazyshr (30496953) <kazyshr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly30550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @markruler (38225900) <csu0414@gmail.com>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hilko Bengen</td>
<td><a href="mailto:bengen@hilluzination.de">bengen@hilluzination.de</a></td>
</tr>
<tr>
<td>Hiroaki Nakamura</td>
<td><a href="mailto:hnakamur@gmail.com">hnakamur@gmail.com</a></td>
</tr>
<tr>
<td>Hiromichi Ema</td>
<td><a href="mailto:ema.hiro@gmail.com">ema.hiro@gmail.com</a></td>
</tr>
<tr>
<td>Hironao OTSUBO</td>
<td><a href="mailto:motemen@gmail.com">motemen@gmail.com</a></td>
</tr>
<tr>
<td>Hiroshi Ioka</td>
<td><a href="mailto:hirochachacha@gmail.com">hirochachacha@gmail.com</a></td>
</tr>
<tr>
<td>Hitoshi Mitake</td>
<td><a href="mailto:mitake.hitoshi@gmail.com">mitake.hitoshi@gmail.com</a></td>
</tr>
<tr>
<td>Holden Huang</td>
<td><a href="mailto:ttyh061@gmail.com">ttyh061@gmail.com</a></td>
</tr>
<tr>
<td>Songlin Jiang</td>
<td><a href="mailto:hollowman@hollowman.ml">hollowman@hollowman.ml</a></td>
</tr>
<tr>
<td>Hong Ruiqi</td>
<td><a href="mailto:hongruiqi@gmail.com">hongruiqi@gmail.com</a></td>
</tr>
<tr>
<td>Hongfei Tan</td>
<td><a href="mailto:feilengcui008@gmail.com">feilengcui008@gmail.com</a></td>
</tr>
<tr>
<td>Horacio Duran</td>
<td><a href="mailto:horacio.duran@gmail.com">horacio.duran@gmail.com</a></td>
</tr>
<tr>
<td>Horst Rutter</td>
<td><a href="mailto:hhrutter@gmail.com">hhrutter@gmail.com</a></td>
</tr>
<tr>
<td>Hossein Sheikh Attar</td>
<td><a href="mailto:hattar@google.com">hattar@google.com</a></td>
</tr>
<tr>
<td>Howard Zhang</td>
<td><a href="mailto:howard.zhang@arm.com">howard.zhang@arm.com</a></td>
</tr>
<tr>
<td>Hsin Tsao</td>
<td><a href="mailto:tsao@google.com">tsao@google.com</a></td>
</tr>
<tr>
<td>Hsin-Ho Yeh</td>
<td><a href="mailto:yhh92u@gmail.com">yhh92u@gmail.com</a></td>
</tr>
<tr>
<td>Hu Keping</td>
<td><a href="mailto:hukeping@huawei.com">hukeping@huawei.com</a></td>
</tr>
<tr>
<td>Huan Du</td>
<td><a href="mailto:i@huandu.me">i@huandu.me</a></td>
</tr>
<tr>
<td>Hugues Bruant</td>
<td><a href="mailto:hugues.bruant@gmail.com">hugues.bruant@gmail.com</a></td>
</tr>
<tr>
<td>Huy Le</td>
<td><a href="mailto:huy.dinh.le.89@gmail.com">huy.dinh.le.89@gmail.com</a></td>
</tr>
<tr>
<td>Hyang-Ah Hana Kim</td>
<td><a href="mailto:hakim@google.com">hakim@google.com</a></td>
</tr>
<tr>
<td>Hyooyoung Chang</td>
<td><a href="mailto:hyooyoung@gmail.com">hyooyoung@gmail.com</a></td>
</tr>
<tr>
<td>Ian Cottrell</td>
<td><a href="mailto:iancottrell@gmail.com">iancottrell@gmail.com</a></td>
</tr>
<tr>
<td>Ian Davis</td>
<td><a href="mailto:nospam@iandavis.com">nospam@iandavis.com</a></td>
</tr>
<tr>
<td>Ian Gudger</td>
<td><a href="mailto:ian@loosescre.ws">ian@loosescre.ws</a></td>
</tr>
<tr>
<td>Ian Haken</td>
<td><a href="mailto:ihtaken@netflix.com">ihtaken@netflix.com</a></td>
</tr>
<tr>
<td>Ian Kent</td>
<td><a href="mailto:iankent85@gmail.com">iankent85@gmail.com</a></td>
</tr>
<tr>
<td>Ian Lance Taylor</td>
<td><a href="mailto:iant@golang.org">iant@golang.org</a></td>
</tr>
<tr>
<td>Ian Leue</td>
<td><a href="mailto:ian@appboy.com">ian@appboy.com</a></td>
</tr>
<tr>
<td>Ian Tay</td>
<td><a href="mailto:iantay@google.com">iantay@google.com</a></td>
</tr>
<tr>
<td>Ian Zapolsky</td>
<td><a href="mailto:ianzapolsky@gmail.com">ianzapolsky@gmail.com</a></td>
</tr>
<tr>
<td>Ibrahim AshShohail</td>
<td><a href="mailto:ibra.sho@gmail.com">ibra.sho@gmail.com</a></td>
</tr>
<tr>
<td>Icarus Sparry</td>
<td><a href="mailto:golang@icarus.freeuk.com">golang@icarus.freeuk.com</a></td>
</tr>
<tr>
<td>Idccha Sethi</td>
<td><a href="mailto:icchasethi@gmail.com">icchasethi@gmail.com</a></td>
</tr>
<tr>
<td>Idoara Shinatose</td>
<td><a href="mailto:idoara.shinatose@gmail.com">idoara.shinatose@gmail.com</a></td>
</tr>
<tr>
<td>Ignacio Hagopian</td>
<td><a href="mailto:jsign.uy@gmail.com">jsign.uy@gmail.com</a></td>
</tr>
<tr>
<td>Igor Bernstein</td>
<td><a href="mailto:igorbernstein@gmail.com">igorbernstein@gmail.com</a></td>
</tr>
<tr>
<td>Igor Bolotnikov</td>
<td><a href="mailto:igor.v.bolotnikov@gmail.com">igor.v.bolotnikov@gmail.com</a></td>
</tr>
<tr>
<td>Igor Dolzhikov</td>
<td><a href="mailto:bluesriverz@gmail.com">bluesriverz@gmail.com</a></td>
</tr>
<tr>
<td>Igor Vashyst</td>
<td><a href="mailto:ivashyst@gmail.com">ivashyst@gmail.com</a></td>
</tr>
<tr>
<td>Igor Zhilianin</td>
<td><a href="mailto:igor.zhilianin@gmail.com">igor.zhilianin@gmail.com</a></td>
</tr>
<tr>
<td>Ikko Ashimine</td>
<td><a href="mailto:eltociear@gmail.com">eltociear@gmail.com</a></td>
</tr>
<tr>
<td>Illya Yalovyy</td>
<td><a href="mailto:yalovoy@gmail.com">yalovoy@gmail.com</a></td>
</tr>
<tr>
<td>Ilya Sinelnikov</td>
<td><a href="mailto:sidhmangh@gmail.com">sidhmangh@gmail.com</a></td>
</tr>
<tr>
<td>Ilya Tocar</td>
<td><a href="mailto:ilya.tocar@intel.com">ilya.tocar@intel.com</a></td>
</tr>
<tr>
<td>INADA Naoki</td>
<td><a href="mailto:songofacandy@gmail.com">songofacandy@gmail.com</a></td>
</tr>
<tr>
<td>Inanc Gumus</td>
<td><a href="mailto:m@inanc.io">m@inanc.io</a></td>
</tr>
<tr>
<td>Ingo Gottwald</td>
<td><a href="mailto:in.gottwald@gmail.com">in.gottwald@gmail.com</a></td>
</tr>
</tbody>
</table>
Liz Rice <liz@lizrice.com>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenz Brun <lorenz@brun.one>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Luca Spiller <luca@stackednotion.com>
Lucas Brengartner <lucas.brengartner@gmail.com>
Lucas Clemente <lclemente@google.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luke Young <bored-engineer@users.noreply.github.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@gmail.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Mahdi Hosseini Moghaddam <seyed.mahdi.hosseini.moghaddam@ibm.com>
Maia Lee <maia.lee@leftfieldlabs.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishsmail@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@gmail.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanmiquel <marcsanmiquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Gazerro <gazerro@open2b.com>
Marco Hennings <marco.hennings@freheit.com>
Marcus Weiner <marcus.weiner@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuennerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Dain <mark@markdain.net>
Mark Glines <mark@glines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <niquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@google.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Asquino <martin.asquino@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Mike Appleby <mike@app.leby.org>
Mike Danese <mikedanese@google.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@google.com>
Mikhail Fesenko <proggga@gmail.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Harahara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <mikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milan Patel <bicelot3@gmail.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Mirko Hansen <baaazen@gmail.com>
Miroslav Genov <ngenov@gmail.com>
Misty De Meo <mistydeomeo@gmail.com>
Mohamed Attahri <mohamed@attahri.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajoria36@gmail.com>
Mohit Verma <mohitv.93@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <nkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moritz Fain <moritz@fain.io>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebhuur <sb.hr@sbrh.dk>
Mshe van der Sterre <moshevs@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammad Hamza Farrukh <hamzafarrukh141@gmail.com>
Muhammed Uluylol <uluylol0@gmail.com>
Muir Manders <muir@mnd.rs>
Mukesh Sharma <sharma.mukesh439@gmail.com>
Mura Li <mura_li@castech.com.tw>
Mykhailo Lesyk <mikhail@lesyk.org>
Naman Aggarwal <aggarwal.nam@gmail.com>
Nan Deng <monnand@gmail.com>
Nao Yonashiro <owan.orisano@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nik Nyby <nnyby@columbia.edu>
Nikhil Benesch <nikhil.benesch@gmail.com>
Nikita Gillmann <nikita@n0.is> <ng0@n0.is>
Nikita Kryuchkov <nkryuchkov10@gmail.com>
Nikita Vanyasin <nikita.vanyasin@gmail.com>
Niklas Schnelle <niklas.schnelle@gmail.com>
Niko Dziemba <niko@dziemba.com>
Nikolay Turpitko <nikolay@turpitko.com>
Nikson Kanti Paul <nikson.sust@gmail.com>
Nils Larsgrd <nilsmagnus@gmail.com>
Nir Soffer <nirsof@gmail.com>
Niranjan Godbole <niranjan8192@gmail.com>
Nishanth Shamughum <nishanth.gerrard@gmail.com>
Noah Campbell <noahcampbell@gmail.com>
Noah Goldman <noahg34@gmail.com>
Noble Johnson <noblepoly@gmail.com>
Nodir Turakulov <nodir@google.com>
Noel Georgi <git@frezbo.com>
Norberto Lopes <nlopes.ml@gmail.com>
Norman B. Lancaster <qbradq@gmail.com>
Nuno Cruces <ncruces@users.noreply.github.com>
Obeı Sideg <obeı.sideg@gmail.com>
Obeyda Djefal <djefobey@gmail.com>
Odin Ugedal <odin@ugedal.com>
Oleg Bulatov <dmage@yandex-team.ru>
Oleg Vakheta <helginet@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Oliver Powell <oliverpowell84@gmail.com>
Oliver Stenbom <ostenbom@pivotal.io>
Oliver Tan <otan@cockroachlabs.com>
Oliver Toninhofer <olt@bogosoft.com>
Olivier Antoine <olivier.antoine@gmail.com>
Olivier Duperray <duperray.olivier@gmail.com>
Olivier Poitrey <rs@dailymotion.com>
Olivier Saingre <osaingre@gmail.com>
Olivier Wulveryck <olivier.wulveryck@gmail.com>
Omar Jarjur <ojarjur@gmail.com>
Onkar Jadhav <omjadHAV2610@gmail.com>
Ori Bernstein <ori@eigenstate.org>
Ori Rawlings <orirawlings@gmail.com>
Oryan Moshe <iamoryanmoshe@gmail.com>
Osamu TONOMORI <osamingo@gmail.com>
zgr Kesim <oce-go@kesim.org>
Pablo Caderno <kaderno@gmail.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul Ruest</td>
<td><a href="mailto:pruest@gmail.com">pruest@gmail.com</a></td>
</tr>
<tr>
<td>Paul Sbarra</td>
<td><a href="mailto:Sbarra.Paul@gmail.com">Sbarra.Paul@gmail.com</a></td>
</tr>
<tr>
<td>Paul Smith</td>
<td><a href="mailto:paulsmith@pobox.com">paulsmith@pobox.com</a></td>
</tr>
<tr>
<td>Paul Smith</td>
<td><a href="mailto:paulsmith@gmail.com">paulsmith@gmail.com</a></td>
</tr>
<tr>
<td>Paul Tyng</td>
<td><a href="mailto:paul@paultyng.net">paul@paultyng.net</a></td>
</tr>
<tr>
<td>Paul van Brouwershaven</td>
<td><a href="mailto:paul@vanbrouwershaven.com">paul@vanbrouwershaven.com</a></td>
</tr>
<tr>
<td>Paul Wankadia</td>
<td><a href="mailto:junyer@google.com">junyer@google.com</a></td>
</tr>
<tr>
<td>Paulo Casaretto</td>
<td><a href="mailto:pcasaretto@gmail.com">pcasaretto@gmail.com</a></td>
</tr>
<tr>
<td>Paulo Flabiano Smorigo</td>
<td><a href="mailto:pfsmorigo@linux.vnet.ibm.com">pfsmorigo@linux.vnet.ibm.com</a></td>
</tr>
<tr>
<td>Paulo Gomes</td>
<td><a href="mailto:paulo.gomes.uk@gmail.com">paulo.gomes.uk@gmail.com</a></td>
</tr>
<tr>
<td>Pavel Paulau</td>
<td><a href="mailto:Pavel.paulau@gmail.com">Pavel.paulau@gmail.com</a></td>
</tr>
<tr>
<td>Pavel Zinovkin</td>
<td><a href="mailto:Pavel.zinovkin@gmail.com">Pavel.zinovkin@gmail.com</a></td>
</tr>
<tr>
<td>Pavlo Sumkin</td>
<td><a href="mailto:ymkins@gmail.com">ymkins@gmail.com</a></td>
</tr>
<tr>
<td>Pawel Knap</td>
<td><a href="mailto:pawelknap88@gmail.com">pawelknap88@gmail.com</a></td>
</tr>
<tr>
<td>Pawel Szczur</td>
<td><a href="mailto:filemon@gmail.com">filemon@gmail.com</a></td>
</tr>
<tr>
<td>Pawe Szulik</td>
<td><a href="mailto:pawel.szulik@intel.com">pawel.szulik@intel.com</a></td>
</tr>
<tr>
<td>Pei Xian Chee</td>
<td><a href="mailto:luciolas1991@gmail.com">luciolas1991@gmail.com</a></td>
</tr>
<tr>
<td>Pei-Ming Wu</td>
<td><a href="mailto:p408865@gmail.com">p408865@gmail.com</a></td>
</tr>
<tr>
<td>Percy Wegmann</td>
<td><a href="mailto:ox.to.a.cart@gmail.com">ox.to.a.cart@gmail.com</a></td>
</tr>
<tr>
<td>Perry Abbott</td>
<td><a href="mailto:perry.j.abbott@gmail.com">perry.j.abbott@gmail.com</a></td>
</tr>
<tr>
<td>Petar Dambovaliev</td>
<td><a href="mailto:petar.atanassov.1987@gmail.com">petar.atanassov.1987@gmail.com</a></td>
</tr>
<tr>
<td>Petar Maymounkov</td>
<td><a href="mailto:petarm@gmail.com">petarm@gmail.com</a></td>
</tr>
<tr>
<td>Peter Armitage</td>
<td><a href="mailto:peter.armitage@gmail.com">peter.armitage@gmail.com</a></td>
</tr>
<tr>
<td>Peter Bourgon</td>
<td><a href="mailto:peter@bourgon.org">peter@bourgon.org</a></td>
</tr>
<tr>
<td>Peter Collingbourne</td>
<td><a href="mailto:pcc@google.com">pcc@google.com</a></td>
</tr>
<tr>
<td>Peter Conerly</td>
<td><a href="mailto:pconerly@gmail.com">pconerly@gmail.com</a></td>
</tr>
<tr>
<td>Peter Dotchev</td>
<td><a href="mailto:dotchev@gmail.com">dotchev@gmail.com</a></td>
</tr>
<tr>
<td>Peter Froehlich</td>
<td><a href="mailto:peter.hans.froehlich@gmail.com">peter.hans.froehlich@gmail.com</a></td>
</tr>
<tr>
<td>Peter Gonda</td>
<td><a href="mailto:pgonda@google.com">pgonda@google.com</a></td>
</tr>
<tr>
<td>Peter Hoyes</td>
<td><a href="mailto:pahoyes@gmail.com">pahoyes@gmail.com</a></td>
</tr>
<tr>
<td>Peter Kleiweg</td>
<td><a href="mailto:pkleiweg@xs4all.nl">pkleiweg@xs4all.nl</a></td>
</tr>
<tr>
<td>Peter McKenzie</td>
<td><a href="mailto:petermck@gmail.com">petermck@gmail.com</a></td>
</tr>
<tr>
<td>Peter Moody</td>
<td><a href="mailto:pmoody@uber.com">pmoody@uber.com</a></td>
</tr>
<tr>
<td>Peter Morjan</td>
<td><a href="mailto:pmorjan@gmail.com">pmorjan@gmail.com</a></td>
</tr>
<tr>
<td>Peter Mundy</td>
<td><a href="mailto:go.peter.90@gmail.com">go.peter.90@gmail.com</a></td>
</tr>
<tr>
<td>Peter Nguyen</td>
<td><a href="mailto:pter@miccis.com">pter@miccis.com</a></td>
</tr>
<tr>
<td>Pter Suriny</td>
<td><a href="mailto:speter.go1@gmail.com">speter.go1@gmail.com</a></td>
</tr>
<tr>
<td>Pter Szab</td>
<td><a href="mailto:pts@google.com">pts@google.com</a></td>
</tr>
<tr>
<td>Pter Szilgyi</td>
<td><a href="mailto:pterke@gmail.com">pterke@gmail.com</a></td>
</tr>
<tr>
<td>Peter Teichman</td>
<td><a href="mailto:pteichman@fastly.com">pteichman@fastly.com</a></td>
</tr>
<tr>
<td>Peter Tseng</td>
<td><a href="mailto:ptseng@squareup.com">ptseng@squareup.com</a></td>
</tr>
<tr>
<td>Peter Waldschmidt</td>
<td><a href="mailto:peter@waldschmidt.com">peter@waldschmidt.com</a></td>
</tr>
<tr>
<td>Peter Waller</td>
<td><a href="mailto:peter.waller@gmail.com">peter.waller@gmail.com</a></td>
</tr>
<tr>
<td>Peter Weinberger</td>
<td><a href="mailto:pjw@golang.org">pjw@golang.org</a></td>
</tr>
<tr>
<td>Peter Williams</td>
<td><a href="mailto:pwil3058@gmail.com">pwil3058@gmail.com</a></td>
</tr>
<tr>
<td>Peter Wu</td>
<td><a href="mailto:pwu@cloudflare.com">pwu@cloudflare.com</a></td>
</tr>
<tr>
<td>Peter Zhang</td>
<td><a href="mailto:i@ddatsh.com">i@ddatsh.com</a></td>
</tr>
<tr>
<td>Petr Jedin</td>
<td><a href="mailto:petr.jediny@gmail.com">petr.jediny@gmail.com</a></td>
</tr>
<tr>
<td>Petrica Voicu</td>
<td><a href="mailto:pvoicu@paypal.com">pvoicu@paypal.com</a></td>
</tr>
</tbody>
</table>
Robert Dinu <r@varp.se>
Robert Figueiredo <robfig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@google.com>
Robert Kuska <rkuska@gmail.com>
Robert Obryk <robryk@gmail.com>
Robert Sesek <rsesek@gmail.com>
Robert Snedegar <roberts@google.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert van Gent <rvangent@gmail.com>
Robert-Andr Mauchin <zebob.m@gmail.com>
Roberto Clapis <robclap8@gmail.com>
Roberto Selbach <roberto.selbach.ca>
Robin Eklind <r.eklind.87@gmail.com>
Robin Zhong <robin@robinzhong.ca>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Rodolfo Rodriguez <rodolfo@rubin.gibson@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxg@gmail.com>
Roger Pau Monn <royger@gmail.com>
Roger Peppe <rogpeppe@gmail.com>
Rohan Challa <rohan@golang.org>
Rohan Verma <rohanverma2004@gmail.com>
Rohith Ravi <entombbedvirus@gmail.com>
Roland Illig <roland.illig@gmx.de>
Roland Shoemaker <rolandshoemaker@gmail.com>
Romain Baugue <romain.baugue@elwinar.com>
Roman Budnikov <romanyx90@yandex.ru>
Roman Koller <roman.kollar.0@gmail.com>
Roman Shchekin <mrtqtr@gmail.com>
Ron Hashimoto <mail@h2so5.net>
Ron Minnich <rminnich@gmail.com>
Ronnie Ebrin <ebryn.ronnie@protonmail.com>
Ross Chater <rdchater@gmail.com>
Ross Kinsey <rosskinsey@gmail.com>
Ross Light <light@google.com> <rlight2@gmail.com>
Ross Smith II <ross@smithii.com>
Rowan Marshall <rowanajmarshall@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rudi Kramer <rudi.kramer@gmail.com>
Rui Ueyama <ruui@gmail.com>
Ruixin Bao <ruixin.bao@ibm.com>
Ruslan Nigmatullin <elessar@dropbox.com>
Russ Cox <rsc@golang.org>
Russell Haering <russelhaering@gmail.com>
Ryan Bagwell <ryanbagwell@outlook.com>
Ryan Barrett <ryanb@google.com>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Ragan <ragansa@fb.com>
Scott Schwartz <scottsgolang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@google.com>
Sean Chen <ooohcode@gmail.com>
Sean Chittenden <seane@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Hildebrand <seanwhildebrand@gmail.com>
Sean Liao <seankhliao@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Chlopecki <sebsebmc@gmail.com>
Sebastian Kinne <skinne@google.com>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Lemeshkin <sergeilem@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergey Zyagurskii <gvozdod@gmail.com>
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synesis.ru>
Sergey Frolov <sfrolov@google.com>
Sergey Glushchenko <gs serge@gmail.com>
Sergey Ivanov <ser1325@gmail.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhat Giydiren <serhatgiydiren@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shailesh Suryawanshi <ss.shailesh28@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sven Taute <sven.taute@gmail.com>
Sylvain Zimmer <sylvain@zimber.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Tadeo Kondrak <me@tadeo.ca>
Taesu Pyo <pyotaesu@gmail.com>
Tai Le <letientai299@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatso@gmail.com>
Takashi Mima <tks.m1205@gmail.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@gmail.com>
Takuya Ueda <uedatukuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tams Gulcsi <tgulacs78@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Qingyun <qingyunna@gmail.com>
Tao Shen <shentao@gingking.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiko Tsujikawa <tatsihiro.t@gmail.com>
Tatsuya Kaneko <m.dott.x.f@gmail.com>
Taufiq Rahman <taufiqr8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@gmail.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
The Hatsune Daishi <nao20010128@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thom Wiggers <thom@thomwiggers.nl>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Tom Panton <tom@tomandtally.co.uk>
Tom Parkin <tom.parkin@gmail.com>
Tom Payne <twpayne@gmail.com>
Tom Szymanski <tgs@google.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tom Zierbock <tomzierbock@gmail.com>
Tomas Dabasinskas <tomas@dabasinskas.net>
Tommy Schaefer <tommy.schaefer@teecom.com>
Tomohiro Kusumoto <zabio1192@gmail.com>
Tomoya Ishizaki <zaqltomo@gmail.com>
Tonis Tiigi <tonistiigi@gmail.com>
Tony Reix <tony.reix@bull.net>
Tony Walker <walkert.uk@gmail.com>
Tooru Takahashi <tooru.takahashi134@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Torben Schinke <storbenschinke@neotos.de>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshihiro Shiino <shiino.toshihiro@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevorstrohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <tamini01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fn.lc>
Troels Thomsen <troels@thomsen.io>
Trong Bui <strong.buiquoc@gmail.com>
Trung Nguyen <trung.n.k@gmail.com>
Tsuji Daishiro <dram.dt.shonan@gmail.com>
Tudor Golubenco <tudorg@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuo@gmail.com>
Tyler Bui-Palsulich <tpalsulich@google.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tyson Andre <tysonandre775@gmail.com>
Tzach Shabtay <tzachshabtay@gmail.com>
Tzu-Chiao Yeh <su3g4284z06y7@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Udalov Max <re.udalov@gmail.com>
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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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Richard Outerbridge

DES core in libhcrypto

D3DES (V5.09) -

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

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


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Automated Testing Framework

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c9f2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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<!-- $Id$ -->

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<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <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"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
</xsl:text>
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# Timers

Collections of one-shot and periodic timers, intended for use with event loops such as [async](https://github.com/socketry/async).


## Installation

Add this line to your application's Gemfile:

```ruby
```

gem 'timers'
```

And then execute:

$ bundle

Or install it yourself as:

$ gem install timers

## Usage

Create a new timer group with `Timers::Group.new`:

```ruby
```

require 'timers'

Timers = Timers::Group.new
```

Schedule a proc to run after 5 seconds with `Timers::Group#after`:
```ruby
five_second_timer = timers.after(5) { puts "Take five" }
```

The `five_second_timer` variable is now bound to a Timers::Timer object. To cancel a timer, use `Timers::Timer#cancel`.

Once you've scheduled a timer, you can wait until the next timer fires with `Timers::Group#wait`:

```ruby
# Waits 5 seconds
timers.wait

# The script will now print "Take five"
```

You can schedule a block to run periodically with `Timers::Group#every`:

```ruby
every_five_seconds = timers.every(5) { puts "Another 5 seconds" }

loop { timers.wait }
```

You can also schedule a block to run immediately and periodically with `Timers::Group#now_and_every`:

```ruby
now_and_every_five_seconds = timers.now_and_every(5) { puts "Now and in another 5 seconds" }

loop { timers.wait }
```

If you'd like another method to do the waiting for you, e.g. `Kernel.select`, you can use `Timers::Group#wait_interval` to obtain the amount of time to wait. When a timeout is encountered, you can fire all pending timers with `Timers::Group#fire`:

```ruby
loop do
  interval = timers.wait_interval
  ready_readers, ready_writers = select readers, writers, nil, interval

  if ready_readers || ready_writers
    # Handle IO
    ...
  else
    # Timeout!
    timers.fire
  end
```
You can also pause and continue individual timers, or all timers:

```ruby
paused_timer = timers.every(5) { puts "I was paused" }

paused_timer.pause
10.times { timers.wait } # will not fire paused timer

paused_timer.resume
10.times { timers.wait } # will fire timer

timers.pause
10.times { timers.wait } # will not fire any timers

timers.resume
10.times { timers.wait } # will fire all timers
```

## Contributing

1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (`git commit -am 'Add some feature'`)
4. Push to the branch (`git push origin my-new-feature`)
5. Create new Pull Request

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# This is the official list of people who can contribute
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# Names should be added to this file like so:
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#   Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.

# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Jensen <jensen.aaro@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Sheah <aaronsheah@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Mitha <adam.mitha@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Adel Rodriguez <adel.rodriguez@leftfieldlabs.com>
Adin Scannell <ascannell@google.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aeciodantasjunior@gmail.com>
Alex Jin <toalexjin@gmail.com>
Alex Kohler <alexjohnkohler@gmail.com>
Alex Myasoedov <msoedov@gmail.com>
Alex Opie <amtopie@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Tokarev <aleksator@gmail.com>
Alex Vaghin <crhyme@yandex.com>
Alex Zhirov <azhirov@gmail.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexdring.ch>
Alexander F Rdseth <alexander.rodseth@appeartv.com>
Alexander Greim <alexxx@iltempo.de>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Klauer <Alexander.Klauer@gmail.com>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Lourier <aml@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Nohe <alex.nohe427@gmail.com>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Pantyukhin <apantyukhin@gmail.com>
Alexander Polcyn <apolcyn@gmail.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexander Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandre.viau.net>
Alexandru Mooi <brtznr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalexandrov@gmail.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Naidonov <alexey.naidonov@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexey Semenyuk <alexsemenyuk88@gmail.com>
Andrew Bonventre <andybons@chromium.org>
Andrew Braunstein <awbraunstein@gmail.com>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt <andrew.ekstedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew G. Morgan <agm@google.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@google.com>
Andrew Kemm <andrewkemm@gmail.com>
Andrew Louis <alouis@digitalocean.com>
Andrew Lutomirski <andy@luto.us>
Andrew Medvedev <andrew.y.medvedev@gmail.com>
Andrew Pilloud <andrewpilou@igneoussystems.com>
Andrew Pogrebnoy <absourd.noise@gmail.com>
Andrew Poydence <apoydence@pivotal.io>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Stormont <astormont@racktopsystems.com>
Andrew Stribblehill <ads@wompom.org>
Andrew Szeto <andrew@jabagawee.com>
Andrew Todd <andrew.todd@wework.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrew Z Allen <me@andrewzallen.com>
Andrey Bokhanko <andreybokhanko@gmail.com>
Andrey Mirtchovski <mirtchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <sfinkenstadt@zynga.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Pan <panjl2000@gmail.com> <panjl2000@golangcn.org> <i@andypan.me>
Andy Walker <walkeraj@gmail.com>
Andy Wang <cbewu.andy@gmail.com>
Andy Williams <andy@andy.xyz>
Andy Zhao <andyzhao@google.com>
Andzej Maciusovic <andzej.maciusovic@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bullfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@google.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rutherford <erutherford@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Eric Wang <wangchaogo1990@gmail.com>
Eric Tryzelaar <etryzelaar@gmail.com>
Erik Aigner <aigner.eric@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@gmail.com>
Erik Westrup <erik.westrup@gmail.com>
Erin Masatsugu <erin.masatsugu@gmail.com>
Ernest Chiang <ernest_chiang@htc.com>
Erwin Oegema <blablaechthema@hotmail.com>
Esko Luontola <eskoluontola@gmail.com>
Ethan Burns <eaburns@gmail.com>
Ethan Hur <ethan0311@gmail.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <euank@euank.com>
Eugene Formanenko <mo4islona@gmail.com>
Eugene Kalinin <e.v.kalinin@gmail.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@gmail.com>
Evan Digby <evandigby@gmail.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Evan Klitzke <evan@eklitzke.org>
Evan Kroske <evankroske@gmail.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Kulikov <tuuxuls@gmail.com>
Evgeniy Polyakov <zbr@iremap.net>
Ewan Chou <coocood@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Fabian Wickborn <fabianwickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedf@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Gaal Yahas <gaal@google.com>
Gabriel Arthr Pursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Guzman <gabe.guzman@gmail.com>
Gabriel Nelle <tehsphinx@web.de>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Rosenhouse <rosenhouse@gmail.com>
Gabriel Russell <gabriel.russell@gmail.com>
Gabriel Vasile <gabriel.vasile0793@gmail.com>
Gareth Paul Jones <gpj@foursquare.com>
Garret Kelly <gdk@google.com>
Garrick Evans <garrick@google.com>
Garry McNulty <garrmncu@gmail.com>
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>
Gary Elliott <garyelliott@gmail.com>
Gaurav Singh <gaurav1086@gmail.com>
Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Gauthier Jolly <gauthier.jolly@gmail.com>
Gawen Arab <gawen.arab@c.zen.ly>
Geert-Johan Riener <gjr19912@gmail.com>
Genevieve Luyt <genevieve.luyt@gmail.com>
Gengliang Wang <ltnwgl@gmail.com>
Geoff Berry <gberry.qdt@qualcommdatcenter.com>
Geoffroy Lorieux <lorieux.g@gmail.com>
Geon Kim <geon0250@gmail.com>
Georg Reinke <guelfey@gmail.com>
George Gkirtsou <ggkirtsou@gmail.com>
George Hartzell <hartzell@alerce.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
George Tsilias <tsiliasg@gmail.com>
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gergely Brautigam <skarlso777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
Gert Cuykens <gert.cuykens@gmail.com>
Getulio Snechez <valentin2507@gmail.com>
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>
Gianguido Sora` <g.sora4@gmail.com>
Gideon Jan-Wessel Redelinghuys <gredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @180909 (70465953) <734461790@qq.com>
GitHub User @6543 (24977596) <6543@obermui.de>
GitHub User @aca (50316549) <acadx0@gmail.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
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<td>@erifan</td>
<td>31343225</td>
<td><a href="mailto:eric.fang@arm.com">eric.fang@arm.com</a></td>
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<td>@esell</td>
<td>9735165</td>
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<tr>
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<td>6345470</td>
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<td>40682920</td>
<td><a href="mailto:nu_11@icloud.com">nu_11@icloud.com</a></td>
</tr>
<tr>
<td>@OlgaVPetrova</td>
<td>44112727</td>
<td><a href="mailto:OVPpetrova@gmail.com">OVPpetrova@gmail.com</a></td>
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</tr>
<tr>
<td>@povsister</td>
<td>11040951</td>
<td><a href="mailto:pov@mahou-shoujo.moe">pov@mahou-shoujo.moe</a></td>
</tr>
<tr>
<td>@pytimer</td>
<td>17105586</td>
<td><a href="mailto:lixin20101023@gmail.com">lixin20101023@gmail.com</a></td>
</tr>
</tbody>
</table>
GitHub User @qcrao (7698088) <qcrao91@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddy.palla@gmail.com>
GitHub User @SataQiu (9354727) <shidaqiu2018@gmail.com>
GitHub User @shogo.ma (9860598) <Choroma194@gmail.com>
GitHub User @sivchari (55221074) <shibuuuu5@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @soolaugust (10558124) <soolaugust@gmail.com>
GitHub User @surechen (7249331) <surechen17@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uzzi (49834542) <uzziprog@gmail.com>
GitHub User @unbyte (5772358) <i@shangyes.net>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh.extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @wolf1996 (5901874) <ksgiv37@gmail.com>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmilewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Grace Han <shgrace503@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Green Lightning <GreenLightning.git@googlemail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezd0+github@gmail.com>
Greg Thelen <gthelen@google.com>
Greg Ward <greg@gerg.ca>
Grgoire Delattre <gregoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Gregory Petrosyanyan <gregory.petrosyan@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guilherme Souza <32180229+gqgs@users.noreply.github.com>
Guillaume J. Charmes <guillaume@charmes.net>
Guillaume Sottas <guillaume.sottas@gmail.com>
Gnter Noack <gnnter@google.com>
Guobiao Mei <meiguobiao@gmail.com>
Guodong Li <guodongli@yahoo.com>
Guoliang Wang <iamwgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavo@franco.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwenel.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@yandex.com>
HAMANO Tsukasa <hamano@ostech.co.jp>
Han-Wen Nienhuys <hanwen@yandex.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hannjzang@gmail.com>
Hanlin He <hanling.he@gmail.com>
Hanlin Shi <shihanlin9@gmail.com>
Haoran Luo <haoran.luo@chaitin.com>
Haosdent Huang <haosdent@gmail.com>
Harald Nordgren <haraldnordgren@gmail.com>
Hari haran <harihan.r@unio@gmail.com>
Hariharan Srinath <srinathh@gmail.com>
Harley Laue <losing.generation@gmail.com>
Harry Moreno <moreno149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hasan Ozgan <hasan@ozgan.net>
Hasit Bhatt <hasit.p.bhatt@gmail.com>
Hauke Lffler <hloeffler@users.noreply.github.com>
Hvrd Haugen <hvard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Hein Khant Zaw <hein.khant.zaw1@gmail.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik.hodne.io>
Henrique Vicente <henriquevicente@gmail.com>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Hubert <google@mindeco.de>
Henry Chang <mr.changyuheng@gmail.com>
Henry Clifford <h.clifford@gmail.com>
Henry Wong <liushuai.wang@elastic.co>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@gmail.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@google.com>
James Clarke <jrtc27@jrtc27.com>
James Cowgill <James.Cowgill@imgtec.com>
James Craig Burley <james-github@burleyarch.com>
James David Chalfant <james.chalfant@gmail.com>
James Eady <jmeady@google.com>
James Fennell <jpfennell@google.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Hartig <fastest963@gmail.com>
James Kasten <jdkasten@google.com>
James Lawrence <jljatone@gmail.com>
James Meneghello <rawrz0r@gmail.com>
James Myers <jfmyers9@gmail.com>
James Naftel <james.naftel@gmail.com>
James Neve <jamesoneve@gmail.com>
James Nugent <james@jen20.com>
James P. Cooper <jamespcooper@gmail.com>
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
James Sweet <james.sweet88@googlemail.com>
James Toy <nil@opensesame.st>
James Treanor <jtreanor3@gmail.com>
James Tucker <raggi@google.com>
James Whitehead <jnwhiteh@gmail.com>
Jamie Beverly <jamie.r.beverly@gmail.com>
Jamie Gennis <jgennis@gmail.com> <jgennis@google.com>
Jamie Kerr <jkerr113@googlemail.com>
Jamie Liu <jamieliu@gmail.com>
Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Lehhardt <jan@apache.org>
Jan Mercel <0xjnml@gmail.com> <befelemepeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Pilzer <jan.pilzer@gmx.de>
Jan Steinke <jan.steinke@gmail.com>
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.moneses@ubuntu.com> <jani.moneses@gmail.com>
Jannis Andrija Schnitzer <jannis@schnitzer.im>
Jared Allard <jaredallard@users.noreply.github.com>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason A. Donenfeld <Jason@zx2c4.com>
Jason Baker <jason-baker@users.noreply.github.com>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jhuberel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delpontej@gmail.com>
Jason Hall <jasonhall@google.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wangsadinata <jwangsadinata@gmail.com>
Javier Kohen <jkohen@google.com>
Javier Revillas <jrevillas@massivedynamic.io>
Javier Segura <javism@gmail.com>
Jay Chen <chenjie@chenjie.info>
Jay Conrod <jayconrod@google.com>
Jay Lee <BusyJayLee@gmail.com>
Jay Taylor <outttame@gmail.com>
Jay Weisskopf <jay@jayschwa.net>
Jean de Klerk <deklerk@google.com>
Jean-André Santoni <jean andre santoni@gmail.com>
Jean-Francois Bustarret <jf@bustarret.com>
Jean-François Cantin <jfcanvin@gmail.com>
Jean-Marc Eurin <jmeurin@google.com>
Jean-Nicolas Moal <jn moal@gmail.com>
Jed Denlea <jed@fastly.com>
Jdrzej Szczepaniak <jszczepaniak@gmail.com>
Jeet Parekh <jeetparekhh96@gmail.com>
Jeevanandam M <jeeva@myjeeva.com>
Jeff (Zhefu) Jiang <jeffjiang@google.com>
Jeff Craig <jeffcraig@google.com>
Jeff Dupont <jeff.dupont@gmail.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jrjohnson@google.com>
Jeff R. Allen <dra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeff Widman <jeff@jeffwidman.com>
Jeffrey H <jeffreyh192@gmail.com>
Jelte Fennema <github tech@jeltef.nl>
Jens Frederick <jfrederich@gmail.com>
Jeremiah Harmsen <jeremiah@google.com>
Jeremy Banks < jeremy.ca>
Jeremy Canady <jcanday@gmail.com>
Jeremy Faller <jeremy@golang.org>
Jeremy Jackins <jeremyjackins@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luke Shumaker <lukeshu@datawire.io>
Luke Young <bored-engineer@users.noreply.github.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejf franklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@facebook.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Mahdi Hosseini Moghaddam <seyed.mahdi.hosseini.moghaddam@ibm.com>
Maia Lee <maia.lee@leftfieldlabs.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishsmail@gmail.com>
Manlio Perillo <manlio.perillo@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@gmail.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <nmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanmiquel <marcsanmiquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Gazerro <gazerro@open2b.com>
Marco Hennings <marco.hennings@freiheit.com>
Marcus Weiner <marcus. weiner@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuennerich <mnu@gmail.com>
Masaya Watanabe <sfbgwm30@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulys <mgulyas86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapinski <czapkofan@gmail.com>
Matheus Alcantara <matheusssilly97@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieulonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioticsar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Masurka <masurka@google.com>
Matt Pearring <broskies@google.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrongl341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <mattbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsey <mdempsky@gmail.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matt.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthias Frei <matthias.frei@inf.ethz.ch>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Mattias Appelgren <mattias@ppelgren.se>
Mauricio Alvarado <mauricio.alvarado@leftfieldlabs.com>
Max Drosdo.www <g1ran1q@gmail.com>
Max Riveiro <kavu13@gmail.com>
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Michael Piłatek <piatek@google.com>
Michael Pratt <mpratt@google.com>
Michael Schaller <michael@schaller.de>
Michael Schurter <michael.schurter@gmail.com>
Michael Shields <mshields@google.com>
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>
Michael Steinert <mike.steinert@gmail.com>
Michael T. Jones <mtj@google.com> <michael.jones@gmail.com>
Michael Teichgrüber <mteichgraeber@gmx.de> <mt4swm@googlemail.com>
Michael Traver <mtraver@google.com>
Michael Vetter <g.bluehut@gmail.com>
Michael Vogt <mvo@ubuntu.com>
Michail Kargakis <mkargaki@redhat.com>
Michal Bohuslavček <mbohuslavec@gmail.com>
Michal Cierniak <cierniak@google.com>
Micha Derkacz <ziutek@inett.pl>
Michal Franc <lam.michal.franc@gmail.com>
Michał Owicki <młowicki@gmail.com>
Michał Pristas <michal.pristas@gmail.com>
Michał Rostecki <mrostecki@suse.de>
Michał Stokluska <mstoklus@redhat.com>
Michalis Kargakis <michalis.kargakis@gmail.com>
Michel Lespinaise <walken@google.com>
Michel Levieux <mllevieux42@gmail.com>
Michele Di Pede <michele.dipede@gmail.com>
Mickael Kerjean <mickael.kerjean@gmail.com>
Mickey Reiss <mickey.reiss@gmail.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Acero <acero@google.com>
Miguel Mendez <stxmendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <mkitti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.ley.org>
Mike Danese <mikedanese@gmail.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@gmail.com>
Mikhail Fesenko <proggga@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Rozman <simon@rozman.si>
Simon Ser <contact@emersion.fr>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Song Lim <songlim327@gmail.com>
Songjiayang <songjiayang1@gmail.com>
Songlin Jiang <hollowman@hollowman.ml>
Soojin Nam <jsunam@gmail.com>
Sren L. Hansen <soren@linux2go.dk>
Sparrow Li <liyuncylx@gmail.com>
Spencer Kocot <spencerkocot@gmail.com>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@gmail.com>
Spenser Black <spenserblack01@gmail.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@google.com>
Sridhar Venkatakrishnan <sridhar@ladoo.net>
Srinidhi Kaushik <shrinidhi.caushik@gmail.com>
StalkR <stalkr@stalkr.net>
Stan Hu <stanhu@gmail.com>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baebler <sbaebler@outbrain.com>
Stefan Nilsson <stnisson@nada.kth.se> <trolleriprofessor@gmail.com>
Stepan Shabalin <neverliberty@gmail.com>
Stephan Klatt <stephan.klatt@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stephan Zuercher <zuercher@gmail.com>
Stephane Travostino <stephane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <stephens.noreply.github.com>
Stephen Ma <stephennm@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Mynott <steve.mynott@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeter <steve@stevestreetering.com>
Steve Traut <strauf@google.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <steve@stevenernst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Maude <git@stevenmaude.co.uk>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <jansen@buscaluz.org>
Subham Sarkar <sarkar.subhams2@gmail.com>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharsh@s.google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyasaundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sven Lee <lee1300394324@gmail.com>
Sven Taute <sven.taute@gmail.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Tadeo Kondrak <me@tadeo.co>
Taesu Pyo <spyotaesu@gmail.com>
Tai Le <letientai299@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takashi Mima <tks.m1205@gmail.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tams Gulci <tgalsci78@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Qingyun <qingyunha@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Timo Savola <timo.savola@gmail.com>
Timo Truyts <alkaloid.btx@gmail.com>
Timothy Gu <timothygu99@gmail.com>
Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@google.com>
Tiwei Bie <tiwei.btw@antgroup.com>
Tobias Assarson <tobias.assarson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>
Tobias Klauser <tklauser@distanz.ch>
Tobias Kohlbau <tobias@kohlbau.de>
Toby Burress <kurin@gmail.com>
Todd Kulesza <tkulesza@gmail.com>
Todd Neal <todd@tneal.org>
Todd Wang <toddwang@gmail.com>
Tom Anthony <git@tomanthony.co.uk>
Tom Bergan <tombergan@google.com>
Tom Freudenberg <tom.freudenberg@4commerce.de>
Tom Heng <zhm20070928@gmail.com>
Tom Lanyon <tomlanyon@gmail.com>
Tom Levy <tomlevy93@gmail.com>
Tom Limoncelli <tal@whatexit.org>
Tom Linford <tomlinford@gmail.com>
Tom Panton <tom@tomandtally.co.uk>
Tom Parkin <tom.parkin@gmail.com>
Tom Payne <twpayne@gmail.com>
Tom Szymanski <tgs@google.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tom Zierbock <tomzierbock@gmail.com>
Tomas Dabasinskas <tomas@dabasinskas.net>
Tommy Schaefer <tommy.schaefer@teecom.com>
Tomohiro Kusumoto <zabio1192@gmail.com>
Tomoya Ishizaki <zaq1tomo@gmail.com>
Toni Tiigi <tonistiigi@gmail.com>
Tony Reix <tony.reix@bull.net>
Tony Walker <walkert.uk@gmail.com>
Tooru Takahashi <tooru.takahashi134@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Torben Schinke <storben.schinke@neotos.de>
Tormod Erevik Lea <tormodleva@gmail.com>
Toshihiro Shiino <shiino.toshihiro@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Dixon <trevordixon@gmail.com>
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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Dolan <dolan@lightstep.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <light@google.com>
Sarah Adams <shadams@google.com>
Scott Van Woudenberg <scottvw@google.com>
Takashi Matsuo <tmatsuo@google.com>

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package api

import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
    Product string `json:"product"

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules""
// List of features enabled by the license
Features []string `json:"features"

}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}
return &reply, nil

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

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package spec

import (  
  "encoding/json"

  "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a/licenseObject
type License struct {  
  LicenseProps  
  VendorExtensible
}
type LicenseProps struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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Support for streaming Protocol Buffer messages for the Go language (golang).
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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package minio

import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"

    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
// type objectLegalHold struct {
//     XMLNS string `xml:"xmlns,attr,omitempty"`
//     XMLName xml.Name `xml:"LegalHold"
//     Status LegalHoldStatus `xml:"Status,omitempty"
// }

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (  // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)
func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `%v`", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }
    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }
    return
}
lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
defr closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }

    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != "" {
    }


// Execute GET on bucket to list objects.
resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentSHA256Hex: emptySHA256Hex,
})
defer closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
    lh := &objectLegalHold{
    }
    lh := &objectLegalHold{
    }
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }
}
return &lh.Status, nil

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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1.2666 kubernetes-apimachinery 0.0.0-20190809020650-423f5d784010

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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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Mersenne Twister

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:
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---------------------------

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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.

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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
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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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END OF TERMS AND CONDITIONS

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.>
Copyright (C) 19yy <name of author>

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necessary. Here is a sample; alter the names:

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

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

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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
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running a program using the Library is not restricted, and output from
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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
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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
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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
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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
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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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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
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   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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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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

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fields:
  - site: string
  - author: root

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1.2679 device-tree-compiler 1.4.5 3

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

d) Convey the object code by offering access from a designated
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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.]

Preamble

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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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.
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.

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<signature of Ty Coon>, 1 April 1989
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Found in path(s):
* /opt/cola/permits/1102648017_1603824195.55/0/slf4j-log4j12-2-0-0-alpha1-sources-1-
  jar/org/slf4j/log4j12/Log4jLoggerFactory.java
* /opt/cola/permits/1102648017_1603824195.55/0/slf4j-log4j12-2-0-0-alpha1-sources-1-
  jar/org/slf4j/log4j12/Log4jLoggerAdapter.java
* /opt/cola/permits/1102648017_1603824195.55/0/slf4j-log4j12-2-0-0-alpha1-sources-1-
  jar/org/slf4j/log4j12/Log4jMDCAdapter.java

1.2703 serialize-javascript 6.0.0

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1.2704 libnet-ssleay-perl 1.84-1ubuntu0.2

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1.2705 findutils 4.6.0+git+20170828-2
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***********************************************************************

The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and isignal code into separate modules.
Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, TRIMBLE PARSE support
Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
Steve Clift <clift@nls.csiro.au> OMEGA clock driver
Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
Jean-Francois Boudreault IPv6 support
Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
Steve Clift <clift@nls.csiro.au> OMEGA clock driver
Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
Glenn Hollinger <glen@herald.usask.ca> GOES clock driver
Mike Iglesias <iglesias@uci.edu> DEC Alpha port
Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
H.Lambermont@chello.nl ntpsweep
Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
William L. Jones <jones@hermes.chp.utexas.edu> RS/6000 AIX modifications, HPUX modifications
Dave Katz <dkatz@cisco.com> RS/6000 AIX port
Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40] David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41] Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atlsoft.de
4. mailto:%20vbaas@mailman1.intel.co
5. mailto:%20kirkwood@striderfm.intel.com  
6. mailto:%20michael.barone@lmco.com  
7. mailto:%20karl@owl.HQ.ileaf.com  
8. mailto:%20greg.brackley@bigfoot.com  
9. mailto:%20Marc.Brett@westgeo.com  
10. mailto:%20Piete.Brooks@c1.cam.ac.uk  
11. mailto:%20nelson@bolyard.me  
12. mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca  
13. mailto:%20reg@dwf.com  
14. mailto:%20clift@ml.csiro.au  
15. mailto:%20casey@csc.co.za  
16. mailto:%20Sven_Dietrich@trimble.COM  
17. mailto:%20dundas@salt.jpl.nasa.gov  
18. mailto:%20duwe@immd4.informatik.uni-erlangen.de  
19. mailto:%20dennis@mrbill.canet.ca  
20. mailto:%20jhay@icomtek.csir.co.za  
21. mailto:%20davehart@davehart.com  
22. mailto:%20neoclock4x@linum.com  
23. mailto:%20glenn@herald.usask.ca  
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25. mailto:%20jagubox.gsfc.nasa.gov  
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46. mailto:%20d@hd.org  
47. mailto:%20neal@ntp.org  
48. mailto:%20Rainer.Pruy@informatik.uni-erlangen.de  
49. mailto:%20dirce@zk3.dec.com  
50. mailto:%20wsanchez@apple.com  
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contextlib2 is a derivative of the contextlib module distributed by 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
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All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
the various releases that included the contextlib module.
Release  Derived  Year  Owner  GPL-
from          Year  Owner  compatible? (1)
2.5     2.4    2006  PSF  yes
2.5.1   2.5    2007  PSF  yes
2.5.2   2.5.1  2008  PSF  yes
2.5.3   2.5.2  2008  PSF  yes
2.6     2.5    2008  PSF  yes
2.6.1   2.6    2008  PSF  yes
2.6.2   2.6.1  2009  PSF  yes
2.6.3   2.6.2  2009  PSF  yes
2.6.4   2.6.3  2009  PSF  yes
2.6.5   2.6.4  2010  PSF  yes
3.0     2.6    2008  PSF  yes
3.0.1   3.0    2009  PSF  yes
3.1     3.0.1  2009  PSF  yes
3.1.1   3.1    2009  PSF  yes
3.1.2   3.1.1  2010  PSF  yes
3.1.3   3.1.2  2010  PSF  yes
3.1.4   3.1.3  2011  PSF  yes
3.2     3.1    2011  PSF  yes
3.2.1   3.2    2011  PSF  yes
3.2.2   3.2.1  2011  PSF  yes
3.3     3.2    2012  PSF  yes

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1.2714 nose 1.3.7-3

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----------
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1.2735 aws-sdk-go-v2 1.2.2
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"

    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
    }
}
result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil

// DeleteLicenseInput

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// Current version of the license.
SourceVersion *string

// DeleteLicenseOutput

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
        addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {
// Filters to scope the results. The following filters are supported:
//
// * ProductSKU
//
// * Status
//
// * KeyFingerprint
//
// * Issuer
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

}
type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:        region,
ServiceID:     ServiceID,
SigningName:   "license-manager",
OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
if params == nil {
    params = &CreateLicenseInput{
}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
addOperationCreateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata
type CreateLicenseOutput struct {

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License status.
    Status types.LicenseStatus

    // License version.
    Version *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:     region,
        ServiceID:  ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}

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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }
    
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
    addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    
    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }
    
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
    addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    
    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }
    
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
    addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    
    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}
```go
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    err = addSetLoggerMiddleware(stack, options);
```
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see RFC 7518 Digital Signature with RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration.
}

// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
    if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
    middleware.Before); err != nil {
        return err
    }
    if err = addRequestIDRetrieverMiddleware(stack); err != nil {
        return err
    }
    if err = addResponseErrorMiddleware(stack); err != nil {
        return err
    }
func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}
type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// * Beneficiary
// * ProductSKU
// * KeyFingerprint
// * Status

Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}
type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}

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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
        addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSigherV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@gmail.com>
Nick Craig-Wood <nickcw@gmail.com>
Scott Van Woudenberg <scottvw@google.com>
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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[
            
        ]
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{License{
        Key:  String("mit"),
        Name: String("MIT"),
        URL:  String("https://api.github.com/licenses/mit"),
    }}
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprintf(w, "{"key":"mit","name":"MIT"}
)

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %v, want %v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
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// LicensesService handles communication with the license related
// methods of the GitHub API.

type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"
    Name *string `json:"name,omitempty"
    URL  *string `json:"url,omitempy"
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured,omitempy"
    Description    *string   `json:"description,omitempy"
    Category       *string   `json:"category,omitempy"
    Implementation *string   `json:"implementation,omitempy"
    Required       [][]string `json:"required,omitempy"
    Permitted      [][]string `json:"permitted,omitempy"
    Forbidden      [][]string `json:"forbidden,omitempy"
    Body           *string   `json:"body,omitempy"
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.

// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }
}
// Fetch extended metadata for one license.

// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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1.2751 jsonpatch 1.16

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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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.2758 metrics-jvm 4.1.16

1.2758.1 Available under license:

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jvm
Build-Jdk-Spec: 11
Bundle-Description: A set of classes which allow you to monitor critical aspects of your Java Virtual Machine using Metrics.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: JVM Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.jvm
Bundle-Version: 4.1.16
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,javax.management";version="4.1.16"
Implementation-Title: JVM Integration for Metrics
Implementation-Version: 4.1.16
Import-Package: com.codahale.metrics;version="[4.1,5)",com.sun.management;resolution:=optional,javax.management.org.slf4j;version="[1.6.0,2.0.0)"
Private-Package: com.codahale.metrics.jvm
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1171050174_1622796413.08/0/metrics-jvm-4-1-16-jar/META-INF/MANIFEST.MF

1.2759 apacheutils 2.4.29-1ubuntu4.20

1.2759.1 Available under license:

Apache-Test was originally developed by:

Doug MacEachern <dougm@cpan.org>

Now maintained by:

Fred Moyer <fred@redhotpenguin.com>
Philip M. Gollucci <pgollucci@p6m7g8.com>
with contributions from the following helpful people
(in alphabetical order):

Alessandro Forghieri <Alessandro.Forghieri@think3.com>
David Wheeler <david@kineticode.com>
Gary Benson <gbenson@redhat.com>
Geoffrey Young <geoff@modperlcookbook.org>
Ken Williams <ken@forum.swarthmore.edu>
Randy Kobes <randy@theoryx5.uwinnipeg.ca>
Rick Myers <rik@sumthin.nu>
Stas Bekman <stas@stason.org>
Steve Hay <steve.hay@uk.radan.com>
Steve Piner <stevep@marketview.co.nz>
Tatsuhiko Miyagawa <miyagawa@edge.co.jp>

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License: PCRE
This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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University of Illinois at Urbana-Champaign
605 E. Springfield, Champaign, IL 61820
httpd@ncsa.uiuc.edu

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License: Haines
This imagemap module started as a port of the original imagemap.c
written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3
of imagemap.c.

Contributors to this code include:

- Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

- Eric Haines, erich@eye.com
  "macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

- Randy Terbush, randy@zyzyva.com
  port to Apache module format, "base_uri" and support for relative URLs

- James H. Cloos, Jr., cloos@jhcloos.com
  Added point datatype, using code in NCSA's version 1.8 imagemap.c
  program, as distributed with version 1.4.1 of their server.
  The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

- Nathan Kurz, nate@tripod.com
  Rewrite/reorganization. New handling of default, base and relative URLs.
  New Configuration directives:
    - ImapMenu {none, formatted, semiformatted, unformatted}
    - ImapDefault {error, nocontent, referer, menu, URL}
    - ImapBase {map, referer, URL}
  Support for creating non-graphical menu added. (backwards compatible):
    Old: directive URL [x,y ...]
    New: directive URL "Menu text" [x,y ...]
    or: directive URL x,y ... "Menu text"
  Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.
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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997
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 */

Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/ServletContextCleaner.java

1.2764 activation 2.0.1

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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Jensen <jensen.aaro@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Sheah <aaronssheah@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Mitha <adam.mitha@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Adel Rodrguez <adel.rodriquez@leftfieldlabs.com>
Adin Scannell <ascannell@google.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aecniodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <sphppрогger@gmail.com>
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Ahmed W. Mones <oneofone@gmail.com>
Ahmet Aktrk <aakturk000@gmail.com>
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Ahmy Yulrizka <yulrizka@gmail.com>
Ahsun Ahmed <ahmed.ahsun@gmail.com>
Aidan Coyle <packrat386@gmail.com>
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Ainar Garipov <gugl.zadolbal@gmail.com>
Aishraj Dahal <aishraj@users.noreply.github.com>
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Al Cutter <al@google.com>
Alan Braithwaite <alan@ipaddr.org>
Alan Donovan <adonovan@google.com>
Alan Shreve <alan@inconshreveable.com>
Albert Nigmatzianov <albertnigma@gmail.com>
Albert Strasheim <fullung@gmail.com>
Albert Teoh <albert.teoh@gmail.com>
Albert Yu <yukinying@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>
Alec Benzer <alec.benzer@gmail.com>
Alejandro Garca Montoro <alejandro.garciamontoro@gmail.com>
Aleksa Sarai <cyphar@cyphar.com>
Aleksandar Dezelin <dezelin@gmail.com>
Aleksandr Lukinykh <a.lukinykh@xsolla.com>
Aleksandr Razumov <ar@cydev.ru>
Bobby Powers <bobbypowers@gmail.com>
Boqin Qin <bobbq Qin@gmail.com>
Boris Nagaev <nagaev@google.com>
Borja Clemente <borja.clemente@gmail.com>
Boshi Lian <bolian@microsoft.com>
Brad Burch <brad.burch@gmail.com>
Brad Erickson <bderickson@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <rbjones@gmail.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Bradford Lamson-Scribner <brad.lamson@gmail.com>
Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Branden J. Brown <zephytronium@gmail.com>
Brandon Bennett <bbennett@fb.com>
Brandon Gilmore <varz@google.com>
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Brandon Ryan <bjryan19@gmail.com>
Brave Cow <rsf715@gmail.com>
Brayden Cloud <bcloud@google.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O’Dea <bod@golang.org>
Brett Cannon <bcannon@gmail.com>
Brett Merrill <brett.j.merrill94@gmail.com>
Brian Dellisanti <briandellisanti@gmail.com>
Brian Downs <brian.downs@gmail.com>
Brian Falk <falk@logicparty.org>
Brian G. Merrell <bgmerrell@gmail.com>
Brian Gitonga Marete <marete@toshnix.com> <bgmarete@gmail.com> <bgm@google.com>
Brian Kennedy <bt kennedy@gmail.com>
Brian Kessler <brian.m.kessler@gmail.com>
Brian Ketelsen <bketelsen@gmail.com>
Brian Slesinsky <skybrian@gmail.com>
Brian Smith <ohohvi@gmail.com>
Brian Starke <brian.starke@gmail.com>
Bryan Alexander <Kozical@msn.com>
Bryan Boreham <bjboreham@gmail.com>
Bryan C. Mills <bcmills@google.com>
Bryan Chan <bryan.chan@ca.ibm.com>
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Dan McArdle <dmcardle@google.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Scales <danscales@google.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Cohen <dcohen@gatech.edu>
Daniel Cormier <danieltc@knowbe4.com>
Danil de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingramds@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gni.net>
Daniel Kessler <dkess@google.com>
Daniel Krech <eikeon@eikeon.com>
Daniel Kumor <rdkumor@gmail.com>
Daniel Langner <s8572327@gmail.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Lublin <daniel@lublin.se>
Daniel Mangum <georgedanielmangum@gmail.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel McCarney <cpu@letsencrypt.org>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadası <dnadası@gmail.com>
Daniel Nephin <dnephin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel S. Fava <danielsfava@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daniela Petruzalek <daniela.petruzalek@gmail.com>
Danish Dua <danishdua@gmail.com>
Danish Prakash <grafitykoncept@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymond <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darren Grant <darene.grant@gmail.com>
Darren McCleary <darren.mcc@gmail.com>
Darshan Parajuli <parajulidarshan@gmail.com>
Datong Sun <dndx@idndx.com>
Dave Borowitz <dborowitz@gmail.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Pifke <dave@pifke.org>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Frederik Zipp <fzipp@gmx.de>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
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Gaal Yahas <gaal@google.com>
Gabriel Arthr Ptursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Guzman <gabe.guzman@gmail.com>
Gabriel Nelle <tehsphinx@web.de>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Rosenhouse <rosenhouse@gmail.com>
Gabriel Russell <gabriel.russell@gmail.com>
Gabriel Vasile <gabriel.vasile0793@gmail.com>
Gareth Paul Jones <gpj@foursquare.com>
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Gauthier Jolly <gauthier.jolly@gmail.com>
Gawen Arab <gawen.arab@c.zen.ly>
Geert-Johan Riemer <gjr19912@gmail.com>
Genevieve Luyt <genevieve.luyt@gmail.com>
Gengliang Wang <ltnwgl@gmail.com>
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Georg Reinke <gueffey@gmail.com>
George Gkirtsou <ggkirtsou@gmail.com>
George Hartzell <hartzell@alerce.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
George Tsilias <tsiliasg@gmail.com>
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>
Gerasimos Dimitriadis <gedimit@gmail.com>
Gergely Brautigam <skarlso777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @markruler (38225900) <csu0414@gmail.com>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micncim (21333876) <micncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @nu50218 (40682920) <nu_11@icloud.com>
GitHub User @OlgaVPetrova (44112727) <OVPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @povsister (11040951) <pov@mahou-shoujo.moe>
GitHub User @pytimer (17105586) <elixin20101023@gmail.com>
GitHub User @qcrao (7698088) <qcrao91@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @SataQiu (9354727) <shidaqu2018@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @sivchari (55221074) <shibuuuu5@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @soolaugust (10558124) <soolaugust@gmail.com>
GitHub User @surechen (7249331) <surechen17@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uji (49834542) <ujiprog@gmail.com>
GitHub User @unbyte (5772358) <i@shangyes.net>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @wolf1996 (5901874) <ksgiv37@gmail.com>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@arista.com>
Glenn Lewis <gmlewis@arista.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Grace Han <hgrace503@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Jon Johnson <jonjohnson@google.com>
Jonas Bernoulli <jonas@bernoulli.li>
Jonathan Albrecht <jonathan.albrecht@ibm.com>
Jonathan Allie <jonallie@google.com>
Jonathan Amsterdam <jba@google.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.github.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhseu@google.com>
Jonathan Mark <jhmark@xenops.com, jhmark000@gmail.com>
Jonathan Nieder <jnm@google.com>
Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@google.com, jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Swinney <jswinney@amazon.com>
Jonathan Wills <runningwild@gmail.com>
Jonathon Lacher <jonathon.lacher@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com, joop@kiefte.net>
Jordan Christiansen <xordspar0@gmail.com>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Liggitt <liggitt@gmail.com>
Jordan Rhee <jordanrh@microsoft.com>
Jordan Rupprecht <rupprecht@gmail.com>
Jordi Martin <jordimartin@gmail.com>
Jorge Araya <jorgejavieran@yahoo.com.mx>
Jorge L. Fatta <jorge.fatta@auth0.com>
Jos Visser <josv@gmail.com>
Josa Gesell <josa@gesell.me>
Jose Luis Vzquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Joseph Morag <sefim96@gmail.com>
Josh Baum <joshbaum@gmail.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@gmail.com>
Josh Holland <jrh@joshh.co.uk>
Josh Rickmar <jrck@companyzero.com>
Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Bezaleel Abednego <joshua.bezaleel@gmail.com>
Nicolas BRULEZ <n.brulez@gmail.com>
Nicolas Kaiser <nikai@nikai.net>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>
Niek Sanders <niek.sanders@gmail.com>
Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nik Nyby <nnby@columbia.edu>
Nikhil Benesch <nikhil.benesch@gmail.com>
Nikita Gillmann <nikita@n0.is> <ng0@n0.is>
Nikita Kryuchkov <nkryuchkov10@gmail.com>
Nikita Melekhin <nimelehin@gmail.com>
Nikita Vanyasin <nikita.vanyasin@gmail.com>
Niklas Schnelle <niklas.schnelle@gmail.com>
Niko Dziemba <niko@dziemba.com>
Nikolay Turpitko <nikolay@turpitko.com>
Nikson Kanti Paul <nikson.sust@gmail.com>
Nils Larsgrd <nilsmagnus@gmail.com>
Nir Soffer <nirsof@gmail.com>
Niranjan Godbole <niranjan8192@gmail.com>
Nishanth Shanmugham <nishanth.gerrard@gmail.com>
Noah Campbell <noahcampbell@gmail.com>
Noah Goldman <noahg34@gmail.com>
Noah Santschi-Cooney <noah@santschi-cooney.ch>
Noble Johnson <noblepoly@gmail.com>
Nodir Turakulov <nodir@google.com>
Noel Georgi <git@frezbo.com>
Norberto Lopes <nlopes.ml@gmail.com>
Norman B. Lancaster <qbradq@gmail.com>
Nuno Cruces <nncruces@users.noreply.github.com>
Obei Sideg <obei.sideg@gmail.com>
Obeyda Djefall <djefobey@gmail.com>
Odin Ugedal <odin@ugedal.com>
Oleg Bulatov <dimage@yandex-team.ru>
Oleg Vakheta <helginet@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <oohookins@gmail.com>
Oliver Powell <oliverpowell84@gmail.com>
Oliver Stenbom <ostenbom@pivotal.io>
Oliver Tan <otan@cockroachlabs.com>
Oliver Tonnhofer <olt@bogosoft.com>
Olivier Antoine <olivier.antoine@gmail.com>
Olivier Dupray <dupray.olivier@gmail.com>
Olivier Poitrey <rs@dailymotion.com>
Olivier Saingre <osaingre@gmail.com>
Olivier Wulveryck <olivier.wulveryck@gmail.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omar Jarjur</td>
<td><a href="mailto:ojarjur@google.com">ojarjur@google.com</a></td>
</tr>
<tr>
<td>Onkar Jadhav</td>
<td><a href="mailto:omjadhav2610@gmail.com">omjadhav2610@gmail.com</a></td>
</tr>
<tr>
<td>Ori Bernstein</td>
<td><a href="mailto:ori@eigenstate.org">ori@eigenstate.org</a></td>
</tr>
<tr>
<td>Ori Rawlings</td>
<td><a href="mailto:orirawlings@gmail.com">orirawlings@gmail.com</a></td>
</tr>
<tr>
<td>Oryan Moshe</td>
<td><a href="mailto:iamoryanmoshe@gmail.com">iamoryanmoshe@gmail.com</a></td>
</tr>
<tr>
<td>Osamu TONOMORI</td>
<td><a href="mailto:osamingo@gmail.com">osamingo@gmail.com</a></td>
</tr>
<tr>
<td>zgr Kesim</td>
<td><a href="mailto:oec-go@kesim.org">oec-go@kesim.org</a></td>
</tr>
<tr>
<td>Pablo Caderno</td>
<td><a href="mailto:kaderno@gmail.com">kaderno@gmail.com</a></td>
</tr>
<tr>
<td>Pablo Lalloni</td>
<td><a href="mailto:plalloni@gmail.com">plalloni@gmail.com</a></td>
</tr>
<tr>
<td>Pablo Rozas Larraondo</td>
<td><a href="mailto:pablo.larraondo@anu.edu.au">pablo.larraondo@anu.edu.au</a></td>
</tr>
<tr>
<td>Pablo Santiago Blum de Aguiar</td>
<td><a href="mailto:scorphus@gmail.com">scorphus@gmail.com</a></td>
</tr>
<tr>
<td>Padraig Kitterick</td>
<td><a href="mailto:padraigkitterick@gmail.com">padraigkitterick@gmail.com</a></td>
</tr>
<tr>
<td>Pallat Anchaleechamaikorn</td>
<td><a href="mailto:yod.pallat@gmail.com">yod.pallat@gmail.com</a></td>
</tr>
<tr>
<td>Pan Chenglong</td>
<td><a href="mailto:1004907659@qq.com">1004907659@qq.com</a></td>
</tr>
<tr>
<td>Panos Georgiadis</td>
<td><a href="mailto:pgeorgiadis@suse.de">pgeorgiadis@suse.de</a></td>
</tr>
<tr>
<td>Paolo Giarrusso</td>
<td><a href="mailto:p.giarrusso@gmail.com">p.giarrusso@gmail.com</a></td>
</tr>
<tr>
<td>Paolo Martini</td>
<td><a href="mailto:mrtnpaolo@gmail.com">mrtnpaolo@gmail.com</a></td>
</tr>
<tr>
<td>Parker Moore</td>
<td><a href="mailto:parkrmoore@gmail.com">parkrmoore@gmail.com</a></td>
</tr>
<tr>
<td>Parminder Singh</td>
<td><a href="mailto:parmsingh101@gmail.com">parmsingh101@gmail.com</a></td>
</tr>
<tr>
<td>Pascal Dierich</td>
<td><a href="mailto:pascal@pascaldierich.com">pascal@pascaldierich.com</a></td>
</tr>
<tr>
<td>Pascal S. de Kloet</td>
<td><a href="mailto:pascal@quies.net">pascal@quies.net</a></td>
</tr>
<tr>
<td>Paschalis Tsilias</td>
<td><a href="mailto:paschalis.tsilias@gmail.com">paschalis.tsilias@gmail.com</a></td>
</tr>
<tr>
<td>Pasi Thlp</td>
<td><a href="mailto:pasi.takhapaa@gmail.com">pasi.takhapaa@gmail.com</a></td>
</tr>
<tr>
<td>Pat Moroney</td>
<td><a href="mailto:pat@pat.email">pat@pat.email</a></td>
</tr>
<tr>
<td>Patrick Barker</td>
<td><a href="mailto:barkerp@vmware.com">barkerp@vmware.com</a></td>
</tr>
<tr>
<td>Patrick Crosby</td>
<td><a href="mailto:patrick@stathat.com">patrick@stathat.com</a></td>
</tr>
<tr>
<td>Patrick Gavlin</td>
<td><a href="mailto:pgavlin@gmail.com">pgavlin@gmail.com</a></td>
</tr>
<tr>
<td>Patrick Gundlach</td>
<td><a href="mailto:gundlach@speeddata.de">gundlach@speeddata.de</a></td>
</tr>
<tr>
<td>Patrick Higgins</td>
<td><a href="mailto:patrick.allen.higgins@gmail.com">patrick.allen.higgins@gmail.com</a></td>
</tr>
<tr>
<td>Patrick Jones</td>
<td><a href="mailto:ithuriel@gmail.com">ithuriel@gmail.com</a></td>
</tr>
<tr>
<td>Patrick Lee</td>
<td><a href="mailto:pattyshack101@gmail.com">pattyshack101@gmail.com</a></td>
</tr>
<tr>
<td>Patrick Mzard</td>
<td><a href="mailto:patrick@mezard.eu">patrick@mezard.eu</a></td>
</tr>
<tr>
<td>Patrick Mylund Nielsen</td>
<td><a href="mailto:patrick@patrickmn.com">patrick@patrickmn.com</a></td>
</tr>
<tr>
<td>Patrick Pelletier</td>
<td><a href="mailto:pp.pelletier@gmail.com">pp.pelletier@gmail.com</a></td>
</tr>
<tr>
<td>Patrick Riley</td>
<td><a href="mailto:spfr@gmail.com">spfr@gmail.com</a></td>
</tr>
<tr>
<td>Patrick Smith</td>
<td><a href="mailto:pat42smith@gmail.com">pat42smith@gmail.com</a></td>
</tr>
<tr>
<td>Patrik Lundin</td>
<td><a href="mailto:patrik@sigterm.se">patrik@sigterm.se</a></td>
</tr>
<tr>
<td>Paul A Querna</td>
<td><a href="mailto:paul.querna@gmail.com">paul.querna@gmail.com</a></td>
</tr>
<tr>
<td>Paul Borman</td>
<td><a href="mailto:borman@gmail.com">borman@gmail.com</a></td>
</tr>
<tr>
<td>Paul Boyd</td>
<td><a href="mailto:boyd.paul2@gmail.com">boyd.paul2@gmail.com</a></td>
</tr>
<tr>
<td>Paul Chang</td>
<td><a href="mailto:paulchang@gmail.com">paulchang@gmail.com</a></td>
</tr>
<tr>
<td>Paul D. Weber</td>
<td><a href="mailto:x0bdev@gmail.com">x0bdev@gmail.com</a></td>
</tr>
<tr>
<td>Paul Davis</td>
<td><a href="mailto:43160081+Pawls@users.noreply.github.com">43160081+Pawls@users.noreply.github.com</a></td>
</tr>
<tr>
<td>Paul E. Murphy</td>
<td><a href="mailto:smurp@ibm.com">smurp@ibm.com</a></td>
</tr>
<tr>
<td>Paul Forgey</td>
<td><a href="mailto:paulf@tessier-ashpool.net">paulf@tessier-ashpool.net</a></td>
</tr>
<tr>
<td>Paul Hammond</td>
<td><a href="mailto:paul@paulhammond.org">paul@paulhammond.org</a></td>
</tr>
<tr>
<td>Paul Hankin</td>
<td><a href="mailto:paulhankin@gmail.com">paulhankin@gmail.com</a></td>
</tr>
<tr>
<td>Email Address</td>
<td>Name</td>
</tr>
<tr>
<td>---------------</td>
<td>------</td>
</tr>
<tr>
<td><a href="mailto:shivani.singhal2804@gmail.com">shivani.singhal2804@gmail.com</a></td>
<td>Shivani Singhal</td>
</tr>
<tr>
<td><a href="mailto:shivansh@freebsd.org">shivansh@freebsd.org</a></td>
<td>Shivansh Rai</td>
</tr>
<tr>
<td><a href="mailto:shivashispadhi@gmail.com">shivashispadhi@gmail.com</a></td>
<td>Shivashis Padhi</td>
</tr>
<tr>
<td><a href="mailto:shoshin_nikita@fastmail.com">shoshin_nikita@fastmail.com</a></td>
<td>Shoshin Nikita</td>
</tr>
<tr>
<td><a href="mailto:shota.710.3506@gmail.com">shota.710.3506@gmail.com</a></td>
<td>Shota Sugiura</td>
</tr>
<tr>
<td><a href="mailto:shubham.sha12@gmail.com">shubham.sha12@gmail.com</a></td>
<td>Shubham Sharma</td>
</tr>
<tr>
<td><a href="mailto:nya@chromium.org">nya@chromium.org</a></td>
<td>Shuhei Takahashi</td>
</tr>
<tr>
<td><a href="mailto:sfan@google.com">sfan@google.com</a></td>
<td>Shun Fan</td>
</tr>
<tr>
<td><a href="mailto:s.jegen@gmail.com">s.jegen@gmail.com</a></td>
<td>Silvan Jegen</td>
</tr>
<tr>
<td><a href="mailto:simao.pngv@gmail.com">simao.pngv@gmail.com</a></td>
<td>Simo Gomes Viana</td>
</tr>
<tr>
<td><a href="mailto:simar@linux.com">simar@linux.com</a></td>
<td>Simarpreet Singh</td>
</tr>
<tr>
<td><a href="mailto:simondrake1990@gmail.com">simondrake1990@gmail.com</a></td>
<td>Simon Drake</td>
</tr>
<tr>
<td><a href="mailto:simon.ferquel@docker.com">simon.ferquel@docker.com</a></td>
<td>Simon Ferquel</td>
</tr>
<tr>
<td><a href="mailto:freisim93@gmail.com">freisim93@gmail.com</a></td>
<td>Simon Frei</td>
</tr>
<tr>
<td><a href="mailto:simon.jefford@gmail.com">simon.jefford@gmail.com</a></td>
<td>Simon Jefford</td>
</tr>
<tr>
<td>simon.rawet.se</td>
<td>Simon Rawet</td>
</tr>
<tr>
<td><a href="mailto:simon@rozman.si">simon@rozman.si</a></td>
<td>Simon Rozman</td>
</tr>
<tr>
<td><a href="mailto:contact@emersion.fr">contact@emersion.fr</a></td>
<td>Simon Ser</td>
</tr>
<tr>
<td><a href="mailto:simon+github@thulbourn.com">simon+github@thulbourn.com</a></td>
<td>Simon Thulbourn</td>
</tr>
<tr>
<td><a href="mailto:chemnova@gmail.com">chemnova@gmail.com</a></td>
<td>Simon Whitehead</td>
</tr>
<tr>
<td><a href="mailto:siadat@gmail.com">siadat@gmail.com</a></td>
<td>Sina Siadat</td>
</tr>
<tr>
<td><a href="mailto:sjoerd.siebinga@gmail.com">sjoerd.siebinga@gmail.com</a></td>
<td>Sjoerd Siebinga</td>
</tr>
<tr>
<td><a href="mailto:funny.falcon@gmail.com">funny.falcon@gmail.com</a></td>
<td>Sokolov Yura</td>
</tr>
<tr>
<td><a href="mailto:song@gao.io">song@gao.io</a></td>
<td>Song Gao</td>
</tr>
<tr>
<td><a href="mailto:songlim327@gmail.com">songlim327@gmail.com</a></td>
<td>Song Lim</td>
</tr>
<tr>
<td><a href="mailto:songjiayang1@gmail.com">songjiayang1@gmail.com</a></td>
<td>Songjiayang</td>
</tr>
<tr>
<td><a href="mailto:hollowman@hollowman.ml">hollowman@hollowman.ml</a></td>
<td>Songlin Jiang</td>
</tr>
<tr>
<td><a href="mailto:jsunam@gmail.com">jsunam@gmail.com</a></td>
<td>Soojin Nam</td>
</tr>
<tr>
<td><a href="mailto:soren@linux2go.dk">soren@linux2go.dk</a></td>
<td>Sren L. Hansen</td>
</tr>
<tr>
<td><a href="mailto:liyuancylx@gmail.com">liyuancylx@gmail.com</a></td>
<td>Sparrow Li</td>
</tr>
<tr>
<td><a href="mailto:spencerkocot@gmail.com">spencerkocot@gmail.com</a></td>
<td>Spencer Kocot</td>
</tr>
<tr>
<td>spenczar.com</td>
<td>Spencer Nelson</td>
</tr>
<tr>
<td><a href="mailto:spencertung@gmail.com">spencertung@gmail.com</a></td>
<td>Spencer Tung</td>
</tr>
<tr>
<td><a href="mailto:spenserblack01@gmail.com">spenserblack01@gmail.com</a></td>
<td>Spenser Black</td>
</tr>
<tr>
<td><a href="mailto:heresy.mc@gmail.com">heresy.mc@gmail.com</a></td>
<td>Spring Mc</td>
</tr>
<tr>
<td><a href="mailto:spetrovic@gmail.com">spetrovic@gmail.com</a></td>
<td>Srdjan Petrovic</td>
</tr>
<tr>
<td><a href="mailto:sridhar@laddoo.net">sridhar@laddoo.net</a></td>
<td>Sridhar Venkatakrishnan</td>
</tr>
<tr>
<td><a href="mailto:shrinidhi.kaushik@gmail.com">shrinidhi.kaushik@gmail.com</a></td>
<td>Srinidhi Kaushik</td>
</tr>
<tr>
<td><a href="mailto:stalkr@stalkr.net">stalkr@stalkr.net</a></td>
<td>StalkR</td>
</tr>
<tr>
<td><a href="mailto:stanhu@gmail.com">stanhu@gmail.com</a></td>
<td>Stan Hu</td>
</tr>
<tr>
<td><a href="mailto:stan@schwertly.com">stan@schwertly.com</a></td>
<td>Stan Schwertly</td>
</tr>
<tr>
<td><a href="mailto:php.progger@gmail.com">php.progger@gmail.com</a></td>
<td>Stanislav Afanasev</td>
</tr>
<tr>
<td><a href="mailto:steeve.morin@gmail.com">steeve.morin@gmail.com</a></td>
<td>Steeve Morin</td>
</tr>
<tr>
<td><a href="mailto:sbaebler@outbrain.com">sbaebler@outbrain.com</a></td>
<td>Stefan Baebler</td>
</tr>
<tr>
<td><a href="mailto:trolleriprofessorn@gmail.com">trolleriprofessorn@gmail.com</a></td>
<td>Stefan Nilsson</td>
</tr>
<tr>
<td><a href="mailto:neverliberty@gmail.com">neverliberty@gmail.com</a></td>
<td>Stepan Shabalin</td>
</tr>
<tr>
<td><a href="mailto:stephan.klatt@gmail.com">stephan.klatt@gmail.com</a></td>
<td>Stephan Klatt</td>
</tr>
<tr>
<td><a href="mailto:srenatus@chef.io">srenatus@chef.io</a></td>
<td>Stephan Renatus</td>
</tr>
</tbody>
</table>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatso@google.com>
Takashi Mima <tks.m1205@gmail.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tams Gulcsi <tghulacs78@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Qingyun <qingyunha@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aiizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhito Tsujikawa <tatsuhito.t@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <ten1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@gmail.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Mantan <acoshift@gmail.com>
The Hatsune Daishi <nao20010128@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thom Wiggers <thom@thomwiggers.nl>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@google.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@google.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@google.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Symborski <thomas.symborski@gmail.com>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tianji Wu <the729@gmail.com>
Tony Reix <tony.reix@bull.net>
Tony Walker <walkert.uk@gmail.com>
Tooru Takahashi <tooru.takahashi134@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Torben Schinke <storben.schinke@neotos.de>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshihiro Shiino <shiino.toshihiro@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Dixon <trevordixon@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <tamin01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fn.lc>
Troels Thomsen <troels@thomsen.io>
Trong Bui <trong.buiquoc@gmail.com>
Trung Nguyen <trung.n.k@gmail.com>
Tsujii Daishiro <dram.dt.shonan@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantu@google.com>
Tyler Bui-Palsulich <tpalsulich@gmail.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tyson Andre <tysonandre775@gmail.com>
Tzach Shabtay <tzachshabtay@gmail.com>
Tzu-Chiao Yeh <su3g4284zo6y7@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Udalov Max <re.udalov@gmail.com>
Uddeshya Singh <singhuddeshyaofficial@gmail.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangiparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Utkarsh Dixit <53217283+utkarsh-extc@users.noreply.github.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Valentin Vivic <vivic@valentin-vivic.from.hr>
Wei Fu <fhfuwei@163.com>
Wei Guangjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Wei Xikai <xykwei@gmail.com>
Weichao Tang <tevic.tt@gmail.com>
Weixie Cui <cuiweixie@gmail.com> <523516579@qq.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
Wenlei (Frank) He <wlhe@gmail.com>
Wenzel Lowe <lowewenzel@gmail.com>
Wil Selwood <wselwood@gmail.com>
Wilfried Teiken <wteiken@gmail.com>
Will Beason <willbeason@gmail.com>
Will Chan <willchan@gmail.com>
Will Faught <will.faught@gmail.com>
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>
Will Norris <willnorris@gmail.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Chang <mr.williamchang@gmail.com>
William Josephson <wjosephson@gmail.com>
William Langford <wlangfor@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
William Poussier <william.poussier@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xry23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xiangdong Ji <xiangdong.ji@arm.com>
Xiaodong Liu <teaofmoli@gmail.com>
Xing Gao <18340825824@163.com>
Xing Xing <mikespook@gmail.com>
Xingqiang Bai <bxq2011hust@qq.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicelias.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzts@desire.sh>
Yan Zou <yzou@gmail.com>
Yang Hau <vulxj08j8@gmail.com>
Yang Tian <linuxty@gmail.com>
Yann Hodique <yhodique@gmail.com>
Yann Kerherv <yann.kerherv@gmail.com>
Yann Salan <yannsalana1@gmail.com>
Yannic Bonenberger <contact@yannic-bonenberger.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@gmail.com>
Yaroslav Vorobiov <yar.vorobiov@gmail.com>
Yasha Bubnov <girokompas@gmail.com>
Yasser Abdolmaleki <yasser@yasser.ca>
Yasuharu Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yasutaka Shinzaki <shinzaki@yasu26.tech>
Yasuyuki Oka <yasuyk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <ylh@pdx.edu>
Yesudeep Mangalapilly <yesudeep@google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yohei Takeda <yo.tak0812@gmail.com>
Yongjian Xu <i3dmaster@gmail.com>
Yorman Arias <ciexitords@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Youfu Zhang <zhangyoufu@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yu, Li-Yu <afg984@gmail.com>
Yuichi Kishimoto <yk2220s@gmail.com>
Yuichi Nishiwaki <yuichi.nishiwaki@gmail.com>
Yuji Yaginuma <yuji.yaginuma@gmail.com>
Yuki Ito <mrgn0110y@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yogui Sonoda <yuguii@gmail.com>
Yukihiro Nishinaka <6elpinal@gmail.com>
YunQiang Su <syq@debian.org>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yvesj@gmail.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gershman <zachgersh@gmail.com>
Zach Hoffman <zrhoffman@apache.org>
Zach Jones <zachj1@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Gershman <zgershman@pivotal.io>
Zak <zrjknill@gmail.com>
Zakatell Kanda <hi@zkanda.io>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zhang Boyang <zhangboyang.id@gmail.com>
Zheng Dayu <davidzheng23@gmail.com>
Zheng Xu <zheng.xu@arm.com>
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AC_DEFUN([gl_CANONICALIZE_LGPL],
[ dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
AC_CHECK_DECLS_ONCE(canonicalize_file_name)
AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
if test $ac_cv_func_canonicalize_file_name = no; then
AC_LIBOBJ(canonicalize-lgpl)
AC_DEFINE([realpath], [rpl_realpath],
[Define to a replacement function name for realpath().])
gl_PREREQ_CANONICALIZE_LGPL
fi
])

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
[  
  AC_CHECK_DECLS_ONCE(canonicalize_file_name)
  AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
  gl_PREREQ_CANONICALIZE_LGPL
])

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
[  
  AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
  AC_CHECK_FUNCS_ONCE(getcwd readlink)
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1.2786 goprotobuf 0.0.0-20170919002109-ae59567b9aab

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1.2787 go-runtime 1.17.5

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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Jensen <jensen.aaro@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Sheah <aaronsheah@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Mitha <adam.mitha@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Adel Rodriguez <adel.rodriguez@leftfieldlabs.com>
Adin Scannell <ascannell@google.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aeciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <phpprogger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed W. Mones <oneofone@gmail.com>
Ahmet Aktrk <aakturk000@gmail.com>
Ahmet Alp Balkan <ahmetb@google.com>
Ahmet Soormally <ahmet@mangomm.co.uk>
Ahmy Yulrizka <yulrizka@gmail.com>
Ahsun Ahmed <ahmed.ahsun@gmail.com>
Aidan Coyle <packrat386@gmail.com>
Aiden Scandella <ai@uber.com>
Ainar Garipov <gugl.zadolbal@gmail.com>
Aishraj Dahal <aishraj@users.noreply.github.com>
Ajanthan Balachandran <balaajanthan@gmail.com>
Akhil Indurti <aindricalt@gmail.com>
Alexander Klauer <Alexander.Klauer@googlemail.com>
Alexander Kucherenko <alvkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Lourier <anil@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumper.de>
Alexander Nohe <alex.nohe427@gmail.com>
Alexander Orlov <alexander.orlov@loxa1.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@google.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandreviau.net>
Alexandru Mooi <brtznr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalexand@google.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Naidonov <alexei.naidonov@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexey Semenyuk <alexsemenyuk88@gmail.com>
Alexey Vilenskiy <bynovhack@gmail.com>
Alexis Hildebrandt <suryhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@google.com>
Ali Farooq <ali.farooq0@pm.me>
Ali Rizvi-Santiago <arizvisa@gmail.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alice Merrick <amerrick@google.com>
Alif Rachmawadi <subosito@gmail.com>
Allan Guwatuddde <guwats10@gmail.com>
Allan Simon <allan.simon@supinfo.com>
Allen Li <ayatane@google.com>
Alok Menghrajani <alok.menghrajani@gmail.com>
Alwin Doss <alwindoss84@gmail.com>
Aman Gupta <aman@tmm1.net>
Amarjeet Anand <amarjeetanandsingh@gmail.com>
Anton Gyllenberg <anton@iki.fi>
Anton Kuklin <anton.a.kuklin@gmail.com>
Antonin Amand <antonin.amand@gmail.com>
Antonio Antelo <aantelov87@gmail.com>
Antonio Bibiano <antbbn@gmail.com>
Antonio Garcia <garcia.olais@gmail.com>
Antonio Huete Jimenez <tuxillo@quantumachine.net>
Antonio Murdaca <runcom@redhat.com>
Antonio Troina <thoeni@gmail.com>
Anze Kolar <me@akolar.com>
Aofei Sheng <aofei@aofeisheng.com>
Apisak Darakananda <pongad@gmail.com>
Aram Hvrneanu <aram@mgk.ro>
Araragi Hokuto <kanseihonbucho@protonmail.com>
Arash Bina <arash@arash.io>
Arda Gl <ardaguclu@gmail.com>
Areski Belaid <areski@gmail.com>
Ariel Mashraki <ariel@mashraki.co.il>
Arkadi Pyuro <arkadi@google.com>
Arlo Breault <arlolra@gmail.com>
Arnaud Ysmal <arnaud.ysmal@gmail.com>
Arne Hormann <arnehormann@gmail.com>
Arnout Engelen <arnout@bzzt.net>
Aron Nopanen <aron.nopanen@gmail.com>
Artem Alekseev <artem.alekseev@intel.com>
Artem Khvastunov <artem.khvastunov@jetbrains.com>
Artem Kolin <artemkaxboy@gmail.com>
Arthur Fabre <arthur@arthurfabre.com>
Arthur Khashaev <arthur@khashaev.ru>
Artur M. Wolff <artur.m.wolff@gmail.com>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvindh Rajesh Tamilmani <art@a-30.net>
Ashish Bhave <ab.listsubs@gmail.com>
Ashish Gandhi <ag@ashishgandhi.org>
Asim Shankar <asimshankar@gmail.com>
Assel Meher <asselmeher@gmail.com>
Atin Malaviya <amalaviy@akamai.com>
Ato Araki <ato.araki@gmail.com>
Atsushi Toyama <atsushi.toyama.160.333@gmail.com>
Audrey Lim <audreylh@gmail.com>
Audrius Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Varialus <varialus@gmail.com>
Aurélien Rainone <aurelien.rainone@gmail.com>
Aurilio A. Heckert <aurium@gmail.com>
Austin Clements <austin@google.com> <aclements@csail.mit.edu>
Avi Flax <avi@timehop.com>
Aviv Klasquin Komissar <avivklas@gmail.com>
awaw fumin <awawfusc@gmail.com>
Awn Umar <awn@cryptolosophy.io>
Axel Wagner <axel.wagner.hh@googlemail.com>
Ayan George <ayan@ayan.net>
Ayanamist Yang <ayyanamist@gmail.com>
Ayke van Laethem <aykevanlaethem@gmail.com>
Aymerrick Jhanne <aymerrick@jehanne.org>
Ayzaat Sadykov <ayzaat.ziko.93@gmail.com>
Azat Kaumov <kaumov.a.r@gmail.com>
Baiju Muthukadan <baiju.m.mail@gmail.com>
Balarama Makam <bmakam.qdt@qualcommdatatcenter.com>
Balazs Lecz <leczb@google.com>
Baokun Lee <nototon@gmail.com> <bk@golangcn.org>
Barnaby Keene <accounts@southcla.ws>
Bartosz Grzybowski <melkorm@gmail.com>
Bartosz Oler <bortsz@gmail.com>
Bassam Ojeil <bejeil@gmail.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Cartwright-Cox <Ben@Benjojo.co.uk>
Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Haines <bhainesva@gmail.com>
Ben Hoyt <benhoyt@gmail.com>
Ben Hutchings <ben.hutchings@essensium.com>
Ben Kraft <benkraft@khanacademy.org>
Ben Laurie <ben@links.org> <benl@gmail.com>
Ben Lubar <ben.lubar@gmail.com>
Ben Lynn <benlynn@gmail.com>
Ben Olive <sionide21@gmail.com>
Ben Schwartz <bemsac@gmail.com>
Ben Shi <powerman1st@163.com>
Ben Toews <mastahyeti@gmail.com>
Benjamin Barenblat <hbaren@google.com>
Benjamin Black <b@b3k.us>
Benjamin Cable <cable.benjamin@gmail.com>
Benjamin Hsieh <tanookiben@users.noreply.github.com>
Benjamin Peterson <benjamin@python.org>
Benjamin Prosinitz <bprosinitz@gmail.com>
Benjamin Wester <bwest@squareup.com>
Benjamin Wuetrich <benjamin.wuethrich@gmail.com>
Benny Siegert <hsiegert@gmail.com>
Benoit Sigoure <tsunanet@gmail.com>
Berengar Lehr <Berengar.Lehr@gmx.de>
Berkant Ipek <41230766+0xbkt@users.noreply.github.com>
Bharath Thiruveedula <bharath91@gmail.com>
Bhavin Gandhi <bhavin7392@gmail.com>
Bill Neubauer <wcn@golang.org> <wcn@gmail.com> <bill.neubauer@gmail.com>
Cathal O'Callaghan <cathalsoicallaghan@gmail.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
Chad Rosier <mrosier.qdt@qualcommdatacenter.com>
ChaiShushan <chaishushan@gmail.com>
Changkun Ou <hi@changkun.us>
Channing Kimble-Brown <channing@golang.org>
Chao Xu <xuchao@gmail.com>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <cldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@gmail.com>
Charlie Moog <moogcharlie@gmail.com>
Charlotte Brandhorst-Satzkorn <catzkorn@gmail.com>
Chauncy Cullitan <chauncy@gmail.com>
Chen Zhidong <njutczd@gmail.com>
Chen Zhihan <energiehund@gmail.com>
Cherry Mui <cherryz@gmail.com>
Chew Choon Keat <choonkeat@gmail.com>
Chiwen Chen <golopot@gmail.com>
Chirag Sukhala <cchirag77@gmail.com>
Cholareae Hu <cholareahyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarm@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@gmail.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Le Roy <brompwnie@users.noreply.github.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris Marchesi <chrism@vancluevertech.com>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@gmail.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrismith@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Taylor <taylorza@gmail.com>
Chris Waldon <christopher.waldon.dev@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Gauthier Jolly <gauthier.jolly@gmail.com>
Gawen Arab <gawen.arab@c.zen.ly>
Geert-Johan Riemer <gjr19912@gmail.com>
Genevieve Luyt <genevieve.luyt@gmail.com>
Gengliang Wang <lnwgl@gmail.com>
Geoff Berry <gberry.qdt@qualcommdatacenter.com>
Geoffroy Lorieux <lorieux.g@gmail.com>
Geon Kim <geon0250@gmail.com>
Georg Reinke <gulfey@gmail.com>
George Gkirtsou <ggkirtsou@gmail.com>
George Hartzell <hartzell@alerce.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
George Tsilias <tsiliasg@gmail.com>
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gergely Brautigam <skarlo777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
Gert Cuykens <gert.cuykens@gmail.com>
Getulio Snechez <valentin2507@gmail.com>
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>
Gianguido Sora` <g.sora4@gmail.com>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @180909 (70465953) <734461790@qq.com>
GitHub User @6543 (24977596) <6543@obermui.de>
GitHub User @aca (50316549) <acadx0@gmail.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>
GitHub User @alke26 (1019076) <alke26@gmail.com>
GitHub User @andig (184815) <cpuidle@gmx.de>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.utf8@gmail.com>
GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <aditza8@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cch123 (384546) <buaa.cch@gmail.com>
GitHub User @chainhelen (7046329) <chainhelen@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @Cluas (10056928) <Cluas@live.cn>
GitHub User @cnical (23520240) <flycalvin@qq.com>
GitHub User @DQNEO (188741) <dqneoo@gmail.com>
GitHub User @Dreamacro (8615343) <chuainian@gmail.com>
GitHub User @dupeo (1143957) <dupeo@users.noreply.github.com>
GitHub User @EndlessCheng (7086966) <loli.con@qq.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @fatedier (7346661) <fatedier@gmail.com>
GitHub User @frenkie (6499251) <mail@rhab.de>
GitHub User @geedchin (11672310) <geedchin@gmail.com>
GitHub User @GrigoriyMikhalkin (3637857) <grigoriymikhalkin@gmail.com>
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>
GitHub User @hitzhangjie (3725760) <hit.zhangjie@gmail.com>
GitHub User @hqpko (13887251) <whaibin01@hotmail.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jimniaoluo (39730824) <jimniaoluo@icloud.com>
GitHub User @jopbrown (6345470) <msshan2008@gmail.com>
GitHub User @kazyshr (30496953) <kazyshr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @komisan19 (18901496) <komiyama6219@gmail.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @lh2617 (33488131) <l.h.lee2617@gmail.com>
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @markruler (38225900) <csu0414@gmail.com>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micnncim (21333876) <micnncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @nu50218 (40682920) <nu_II@icloud.com>
GitHub User @OlgaVIPetrova (44112727) <OVPpetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopokutuna@gmail.com>
GitHub User @povsister (11040951) <pov@mahou-shoujo.moe>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @qcrao (7698088) <qcrao91@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saitarunredddy (21041941) <saitaranreddypalla@gmail.com>
GitHub User @SataQiu (9354727) <shidaqiu2018@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @sivchari (55221074) <shibuuuu5@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @soolaugust (10558124) <soolaugust@gmail.com>
GitHub User @surechen (7249331) <surechen17@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uji (49834542) <ujiprof@gmail.com>
GitHub User @unbyte (5772358) <i@shangyes.net>
GitHub User @uropek (39370426) <uropek@gmail.com>
John Gilik <john@ggilik.com>
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>
John Howard Palevich <jack.palevich@gmail.com>
John Jago <johnjago@protonmail.com>
John Jeffery <jjeffery@sp.com.au>
John Jenkins <twodopeshaggy@gmail.com>
John Leidegren <john.leidegren@gmail.com>
John McCabe <john@johnmccabe.net>
John Moore <johnkenneth.moore@gmail.com>
John Newlin <jnewlin@google.com>
John Papandriopoulos <jap.code@gmail.com>
John Potocny <johnp@vividcortex.com>
John R. Lenton <jlenton@gmail.com>
John Schnake <schnake.john@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
John Weldon <johnweldon4@gmail.com>
Johnny Luo <johnnyluo1980@gmail.com>
Jon Chen <jchen@justin.tv>
Jon Johnson <jonjohnson@google.com>
Jonas Bernoulli <jonas@bernoulli.li>
Jonathan Albrecht <jonathan.albrecht@ibm.com>
Jonathan Allie <jonallie@google.com>
Jonathan Amsterdam <jba@google.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.github.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhseu@google.com>
Jonathan Mark <jhmark@xenops.com> <jhmark00@gmail.com>
Jonathan Nieder <jrn@google.com>
Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Swinney <jswinney@amazon.com>
Jonathan Wills <runningwild@gmail.com>
Jonathon Lacher <jonathon.lacher@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>
Jordan Christiansen <xordspar0@gmail.com>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Liggitt <liggitt@google.com>
Jordan Rhee <jordanrh@microsoft.com>
Jordan Rupprecht <rupprecht@google.com>
Jordi Martin <jordimartin@gmail.com>
Jungho Ahn <jhahn@google.com>
Junya Hayashi <ledmonster@gmail.com>
Juraj Sukop <sukop@users.noreply.githubusercontent.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <jgracenin@gmail.com>
Justin Li <git@justinli.net>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justyntemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Dong <dokia2357@gmail.com>
Kai Lke <kai@kinvolk.io>
Kai Trukenmiller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kalman Bekesi <kalmanb@google.com>
Kamal Aboul-Hosn <aboulhosn@gmail.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.githubusercontent.com>
Kang Hu <hukangustc@gmail.com>
Kanta Ebihara <kantaebihara@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karoly Negyesi <chx1975@gmail.com>
Karsten Khler <karsten.koehler95@gmail.com>
Karthik Nayak <karthik.188@gmail.com>
Kashav Madan <shvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Katharine Berry <ktbry@google.com>
Katie Hockman <katie@golang.org>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>
Kay Zhu <kayzhu@gmail.com>
Kazuhiro Sera <seratch@gmail.com>
KB Sriram <kbsriram@gmail.com>
Keegan Carruthers-Smith <keegan.csmith@gmail.com>
Kei Son <hey.calmdown@gmail.com>
Keiichi Hirobe <chalenge.akane@gmail.com>
Keiji Yoshida <keijiyoshida.mail@gmail.com>
Keisuke Kishimoto <keisuke.kishimoto@gmail.com>
Keith Ball <inflatablewoman@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <kr@xph.us>
Kelly Heller <pestophagus@gmail.com>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Kemal Elmizan <kemaelmizan@gmail.com>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Koya IWAMURA <kiwamura0314@gmail.com>
Kris Kwiatkowski <kris@cloudflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@google.com>
Krishna Birla <krishnabirla16@gmail.com>
Kristopher Watts <traetox@gmail.com>
Krzysztof Dbrowski <krzysdbro@live.com>
Kshitij Saraogi <kshitijsaraogi@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kush Patel <kush.patel@hootsuite.com>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyle Nusbaum <kyle@datadog.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrillo Silin <silin@kyrillo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lannmi@gmail.com>
Lanre Adelowo <yo@lanre.wtf>
Lapo Luchini <lapo@lapo.it>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonard Wang <wangdeyu0907@gmail.com>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dec <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Masurka <masurka@google.com>
Matt Pearing <broskies@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewwbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@gmail.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthias Frei <matthias.frei@inf.ethz.ch>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Mathijs Kooijman <matthijs@stdin.nl>
Mattias Appelgren <mattias@ppelgren.se>
Mauricio Alvarado <mauricio.alvarado@leftfieldlabs.com>
Max Drosdo.www <g1ran1q@gmail.com>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenik <maxsem.wiki@gmail.com>
Max Ushakov <ushmax@gmail.com>
Maxim Eryomenko <moeryomenko@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@gmail.com>
Maxim Pugachev <pugachev.mm@gmail.com>
Maxim Ushakov <ushakov@gmail.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Mehrad Sadeghi <2012.linkinpark@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Micha Derkacz <ziutek@lnet.pl>
Michal Franc <lam.michal.franc@gmail.com>
Michał owicki <mlowicki@gmail.com>
Michał Pristas <michal.pristas@gmail.com>
Michał Rostecki <mrostecki@suse.de>
Michał Stokluska <mstoklus@redhat.com>
Michalis Kargakis <michaliskargakis@gmail.com>
Michel Lespinasse <walken@google.com>
Michel Levieux <mlevieux42@gmail.com>
Michele Di Pede <michele.di.pede@gmail.com>
Mickael Kerjean <mickael.kerjean@gmail.com>
Mickey Reiss <mickeyreiss@gmail.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Acero <acero@google.com>
Miguel Mendez <stxmenendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <mkti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.leby.org>
Mike Danese <mikedanese@gmail.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.roset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@gmail.com>
Mikhail Fesenko <proggga@gmail.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <mikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milan Patel <bicelot3@gmail.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Mirko Hansen <baaazem@gmail.com>
Miroslav Genov <ngenov@gmail.com>
Misty De Meo <mistydemeo@gmail.com>
Mohamed Attahri <mohamed@attahri.com>
Open Source Used In SMI 2021.01.0-Jan-2022  29156

Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Poh Zi How <poh.zihow@gmail.com>
Polina Osadcha <polliosa@google.com>
Pontus Leitzler <leitzler@gmail.com>
Povilas Versockas <p.versockas@gmail.com>
Prajwal Koirala <16564273+Prajwal-Koirala@users.noreply.github.com>
Prasanga Siripala <pj@pjlbs.com.au>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Agrawal <prashant.a.vjti@gmail.com>
Prashant Varanasi <prashant@prashantv.com>
Praveen Kumar <praveen+git@kumar.in>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Pure White <wu.purewhite@gmail.com>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <ilsh1022@gmail.com>
Quan Tran <qued.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quy-Liang Kao <s101062801@m101.nthu.edu.tw>
Quim Muntal <quimmuntal@gmail.com>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Rabin Gaire <rabingaire20@gmail.com>
Radek Simko <radek.simko@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>
Rahul Bajaj <rahulrb0509@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Rahul Wadhwan <rahulwadhwan21@gmail.com>
Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Randy Reddig <randy@alta.software>
Raph Leveni <raph@google.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Ravil Bikbulatov <weeellz12@gmail.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sven Lee <lee1300394324@gmail.com>
Sven Taute <sven.taute@gmail.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Tadeo Kondrak <me@tadeo.ca>
Taesu Pyo <pyotaesu@gmail.com>
Tai Le <letientai299@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmat suo@google.com>
Takashi Mima <tks.m1205@gmail.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <ue datakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tams Gulcsi <tgulacsi78@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Qingyun <qingyunha@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aiuz.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
The Hatsune Daishi <nao20010128@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thom Wiggers <thom@thomwiggers.nl>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@google.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@google.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@google.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Symborski <thomas.symborski@gmail.com>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz < contato@tiago.eti.br>
Tianji Wu <the729@gmail.com>
Tianon Gravi <admwiggin@gmail.com>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>
Tim Henderson <tim.tadh@gmail.com>
Tim Hockin <thockin@google.com>
Tim King <taking@google.com>
Tim Mhlmann <muhlemmer@gmail.com>
Tim Swast <swast@google.com>
Tim Wright <tenortim@gmail.com>
Tim Xu <xiaoxubeii@gmail.com>
Timmy Douglas <timmyd983@gmail.com>
Timo Savola <timo.savola@gmail.com>
Timo Truysts <alkaloid.btx@gmail.com>
Timothy Gu <timothygu99@gmail.com>
Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@gmail.com>
Tiwei Bie <tiwei.tw@antgroup.com>
Tobias Assarsson <tobias.assarsson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>
Tobias Klauser <tklauser@distant.ch>
Tobias Kohlbau <tobias@kohlbau.de>
Toby Burress <kurin@google.com>
Todd Kulesza <tkulesza@google.com>
Todd Neal <todd@tmeal.org>
Todd Wang <toddwang@gmail.com>
Tom Anthony <git@tomanthony.co.uk>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <snek.narqo@gmail.com>
Vojtech Bocek <vbocek@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotski <vpaprots@ca.ibm.com>
W. Trevor King <wking@tremily.us>
Wade Simmons <wade@wades.im>
Wagner Riffel <wgriffel@gmail.com>
Walt Della <walt@wads.net>
Walter Poupore <wpoupore@google.com>
Wander Lairson Costa <wcosta@mozilla.com>
Wang Xuerui <git@xen0n.name>
Warren Fernandes <warren.f.fernandes@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@gmail.com>
Weerasak Chongnguluam <singpor@gmail.com>
Wi Cngru <crvv.mail@gmail.com>
Wei Fu <sfhfuei@163.com>
Wei Guangjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Wei Xikai <xkywei@gmail.com>
Weichao Tang <tevic.tt@gmail.com>
Weixie Cui <cuiweixie@gmail.com> <523516579@qq.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
Wenlei (Frank) He <wlhe@google.com>
Wenzel Lowe <lowewenzel@gmail.com>
Wil Selwood <wselwood@gmail.com>
Wilfried Teiken <wteiken@google.com>
Will Beason <willbeason@gmail.com>
Will Chan <willchan@gmail.com>
Will Faught <will.faught@gmail.com>
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>
Will Norris <willnorris@gmail.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Chang <mr.williamchang@gmail.com>
William Josephson <w josephson@gmail.com>
William Langford <wlangfor@gmail.com>
William Orr <will@worrbase.com> <syl1244@gmail.com>
William Poussier <william.poussier@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xry23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xiangdong Ji <xiangdong.ji@arm.com>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzh@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gershman <zachgersh@gmail.com>
Zach Hoffman <zrhoffman@apache.org>
Zach Jones <zachj1@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Gershman <zgershman@pivotal.io>
Zak <zrjknill@gmail.com>
Zakatell Kanda <hi@zkanda.io>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zhang Boyang <zhangboyang.id@gmail.com>
Zheng Dayu <davidzheng23@gmail.com>
Zheng Xu <zheng.xu@arm.com>
Zhengyu He <hzy@google.com>
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Zhongwei Yao <zhongwei.yao@arm.com>
Zhou Peng <p@ctriple.cn>
Ziad Hatahet <hatahet@gmail.com>
Ziheng Liu <lzhfromustc@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
Zvonimir Pavlinovic <zpavlinovic@gmail.com>
Zyad A. Ali <zyad.ali.me@gmail.com>
<a.maksadbek@gmail.com>
<max.faceless.frei@gmail.com>
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- Copy files to and from Containers in a cluster

# 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

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
-c <container-name>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `:<namespace>/`.

```bash
-pod-namespace/<pod-name>:<path>
```

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1.2799 x-time-rate 0.0.0-20191024005414-555d28b269f0

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
    
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
    })
    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
        return nil
    }
}
if strings.HasSuffix(path, ".pb.go") {
  // .pb.go files are generated from the proto files.
  // .proto files must have license headers.
  return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
  // Automatically generated.
  return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
  // BSD license, which is compatible, is embedded in the file.
  return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
  return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
  if !bytes.Contains(src, []byte(sentinel))) {
    t.Errorf("%v: license header not present. want %q", path, sentinel)
    return nil
  }
}

return nil
}
if err != nil {
  t.Fatal(err)
}
}

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Andy Finkenstadt <afinkenstadt@zynga.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Walker <walkeraj@gmail.com>
Andrzej Maciusovic <andrzej.maciusovic@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Anit Gandhi <anitgandhi@gmail.com>
Borja Clemente <borja.clemente@gmail.com>
Brad Burch <brad.burch@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <rbjones@google.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Brandon Bennett <bbennett@fb.com>
Brandon Gilmore <varz@google.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O'Dea <bod@golang.org>
Brett Cannon <bcannon@gmail.com>
Brett Merrill <brett.j.merrill94@gmail.com>
Brian Dellisanti <briandellisanti@gmail.com>
Brian Downs <brian.downs@gmail.com>
Brian G. Merrell <bgmerrell@gmail.com>
Brian Gitonga Marete <marete@toshnix.com> <bgmarete@gmail.com> <bgm@gmail.com>
Brian Kennedy <btkennedy@gmail.com>
Brian Kessler <brian.m.kessler@gmail.com>
Brian Ketelsen <bketelsen@gmail.com>
Brian Slesinsky <skybrian@gmail.com>
Brian Smith <ohohvi@gmail.com>
Brian Starke <brian.starke@gmail.com>
Bryan Alexander <Kozical@msn.com>
Bryan C. Mills <bcmills@gmail.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Bryan Ford <brynosaurus@gmail.com>
Bulat Gaifullin <gaifullinbf@gmail.com>
Burak Guven <bguven@gmail.com>
Caine Tighe <arctanofyourface@gmail.com>
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>
Caleb Martinez <accounts@calebmartinez.com>
Caleb Spare <cespare@gmail.com>
Carl Chatfield <carlchatfield@gmail.com>
Carl Henrik Lunde <chlunde@ifi.uio.no>
Carl Jackson <carl@stripe.com>
Carl Johnson <me@carlmjohnson.net>
Carl Mastrangelo <notcarl@google.com>
Carl Shapiro <cshapiro@gmail.com> <cshapiro@golang.org>
Carlisia Campos <carlisia@grokkingtech.io>
Carlo Alberto Ferraris <cafxx@strayorange.com>
Carlos Castillo <cookie9@gmail.com>
Carlos Cirello <uldericofilho@gmail.com>
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Danil de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingramds@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasí <dnadasí@google.com>
Daniel Nephin <dnephin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daniela Petruzalek <daniela.petruzalek@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymond <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darshan Parajuli <parajulidarshan@gmail.com>
Datong Sun <ndnx@idndnx.com>
Dave Borowitz <dborowitz@gmail.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Russell <forfunescape@gmail.com>
David Anderson <danderson@gmail.com>
David Barnett <dbarnett@gmail.com>
David Benjamin <davidben@gmail.com>
David Brophy <dave@brophy.uk>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Carlier <devnexen@gmail.com>
David Chase <drc chase@gmail.com>
David Covert <davidhcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@google.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Heuschmann <heuschmann.d@gmail.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Jones <dxjones@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@google.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dsvymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Timm <dttimm@pivotal.io>
David Titarenco <david.titarenco@gmail.com>
David Tolpin <david.tolpin@gmail.com>
David Url <david@urld.io>
David Volquartz Lebech <david@lebech.info>
David Wimmer <davidlwimmer@gmail.com>
Davies Liu <davies.liu@gmail.com>
Davor Kapsa <davor.kapsa@gmail.com>
Dean Prichard <dean.prichard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Nagorny <denis.nagorny@intel.com>
Dennis Kuhnert <mail.kuhnert@gmail.com>
Denys Honsiorovskyi <honsiorovskyi@gmail.com>
Denys Smirnov <denis.smirnov.91@gmail.com>
Derek Buitenhuys <derek.buitenhuys@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgstyle.net>
Derek Parker <parkerderek86@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Dev Ojha <dojha12@gmail.com>
Dev Zhoujun <dev.zhoujun@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhaivat Pandit <dhaivatpandit@gmail.com>
Dhananjay Nakrani <dhananjayn@gmail.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
Dhruvdutt Jadhav <dhruvdutt.jadhav@gmail.com>
Di Xiao <dixiao@gmail.com>
Didier Spezia <didier.06@gmail.com>
Diego Siqueira <diego9889@gmail.com>
Dieter Plaetinck <dieter@raintank.io>
Dimitri Sokolyuk <sokolyuk@gmail.com>
Dimitri Tcaciuc <dtcaciuc@gmail.com>
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Emerson Lin <linyintor@gmail.com>
Emil Hessman <email@hessman.se>
Emil Mursalimov <mursalimovemeel@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eno Compton <enocom@google.com>
Eoghan Sherry <ejsherry@gmail.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric Engstrom <eric@engstrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@gmail.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emiliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Erik Aigner <aigner.erik@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@gmail.com>
Erik Westrup <erik.westrup@gmail.com>
Erin Masatsugu <erin.masatsugu@gmail.com>
Ernest Chiang <ernest_chiang@htc.com>
Erwin Oegema <blablaechthema@hotmail.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@gmail.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <eukemp@eukemp.com>
Eugene Kalinin <e.v.kalinin@gmail.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@google.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Evan Klitzke <evan@eklitzke.org>
Evan Kroske <evankroske@gmail.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Polyakov <zbr@ioremap.net>
Ewan Chou <coocood@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Joel Stemmer <stemmertech@gmail.com>
Joey Geiger <jgeiger@users.noreply.github.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
Johan Euphrosine <proppy@google.com>
Johan Sageryd <j@1616.se>
John Asmuth <jasmuth@gmail.com>
John Beisley <huin@gmail.com>
John C Barstow <jbowtie@amathaine.com>
John DeNero <denero@google.com>
John Dethridge <jcd@golang.org>
John Gibb <johngibb@gmail.com>
John Gilik <john@jgililk.com>
John Graham-Cumming <jgc@jgc.org> <jgrahame@gmail.com>
John Howard Palevich <jack.palevich@gmail.com>
John Jeffery <jeffery@sp.com.au>
John Jenkins <twodopeshaggy@gmail.com>
John Leidegren <john.leidegren@gmail.com>
John Newlin <jnewlin@gmail.com>
John Potocny <johnp@vividcortex.com>
John R. Lenton <jlenton@gmail.com>
John Schnake <schnake.john@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Johnny Luo <johnnyluo1980@gmail.com>
Jon Chen <jchen@justin.tv>
Jonas Bernoulli <jonas@bernoul.li>
Jonathan Allie <jonallie@gmail.com>
Jonathan Amsterdam <jba@google.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.github.com>
Jonathan Feinberg <feinberg.google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhsue@google.com>
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>
Jonathan Nieder <jrn@gmail.com>
Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@gmail.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Rhee <jordanrh@microsoft.com>
Jos Visser <josv@google.com>
Jose Luis Vzquez Gonzalez <josvazg@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Kris Kwatkowski <kris@cloudflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@gmail.com>
Kristopher Watts <traetox@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@gmail.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrilo Silin <silin@kyrylo.org>
L. Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lanmm@gmail.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <mne@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekaproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@google.com>
Matthew Denton <mdenton@skyporosystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <mattmehorsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Ushakov <ushmax@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Ushakov <usakov@gmail.com>
Maxime de Roucy <maxime.dereoucy@gmail.com>
Mximo Cuadros Ortiz <mucuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knyszek <mknyszek@google.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Darakananda <pongad@google.com>
Michael Dorner <mail@michaeldorner.de>
Michael Edwards <medwards@walledcity.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Ellis <micellis@justin.tv>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Fromberger <michael.j.fromberger@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>
Michael Henderson <mdhender@users.noreply.github.com>
Michael Hendricks <michael@ndrix.org>
Michael Hoisie <hoisie@gmail.com>
Michael Hudson-Doyle <michael.hudson@linaro.org>
Michael Kasch <michael.kasch@gmail.com>
Michael Kuff <golang@c.michael-kaeuff.de>
Michael Kelly <mjk@google.com>
Michael Lewis <mikelikespie@gmail.com>
Michael MacInnis <Michael.P.MacInnis@gmail.com>
Michael Marineau <michael.marineau@coreos.com>
Michael Matloob <matloob@google.com>
Michael McConville <momconville@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Michael McLoughlin <mmcloughlin@gmail.com>
Michael Munday <mike.munday@ibm.com>
Michael Pearson <mipearson@gmail.com>
Michael Piatek <piatek@google.com>
Michael Pratt <mpratt@google.com>
Michael Schaller <michael@5challer.de>
Michael Schurter <michael.schurter@gmail.com>
Michael Shields <mshields@google.com>
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>
Michael Steinert <mike.steinert@gmail.com>
Michael T. Jones <mj@google.com> <michael.jones@gmail.com>
Michael Teichgraber <nteichgraeb@gmx.de> <mt4swm@googlemail.com>
Michael Traver <mtraver@google.com>
Michael Vetter <g.bluehut@gmail.com>
Michal Bohuslvek <mbohuslavek@gmail.com>
Michal Cierniak <cierniak@nokia.com>
Micha Derkacz <ziutek@inetr.pl>
Michal Franc <lam.michal.franc@gmail.com>
Michal Pristas <michal.pristas@gmail.com>
Michal Rostecki <mrostecki@suse.de>
Michalis Kargakis <michaeliskargakis@gmail.com>
Michel Lespinasse <walken@google.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Mendez <stxmendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <mikti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.leby.org>
Mike Danese <mikedanese@googl.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@google.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikio.h.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk>
Mikoaj Baranowski <nikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Miroslav Genov <mgenov@gmail.com>
Misty De Meo <misty.demeo@gmail.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajo36@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <mnkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbr.dk>
Mshe van der Sterre <mosheveds@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammed Uluyol <uluyol0@gmail.com>
Mura Li <mura_li@castech.com.tw>
Nan Deng <monnand@gmail.com>
Naoki Kanatani <k12naoki@gmail.com>
Nate Wilkinson <nathanwilk7@gmail.com>
Nathan Cantelmo <n.cantelmo@gmail.com>
Nathan Caza <mastercactapus@gmail.com>
Nathan Humphreys <nkhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nodir Turakulov <nodir@google.com>
Noel Georgi <git@frezbo.com>
Norberto Lopes <nlopes.ml@gmail.com>
Odin Ugedal <odin@ugedal.com>
Oleg Bulatov <dimage@yandex-team.ru>
Oleg Vakheta <helginet@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Oliver Poitrey <rs@dailymotion.com>
Oliver Saingre <osaisingre@gmail.com>
Omar Jarjur <ojarjur@google.com>
Oryan Moshe <iamoryanmoshe@gmail.com>
Osamu TONOMORI <osamengo@gmail.com>
zgr Kesim <oec-go@kesim.org>
Pablo Lalloni <plalloni@gmail.com>
Pablo Rozas Larraondo <pablo.larraondo@anu.edu.au>
Pablo Santiago Blum de Aguiar <scorphus@gmail.com>
Padraig Kitterick <padraigkitterick@gmail.com>
Pallat Anchaleechamaikorn <yod.pallat@gmail.com>
Paolo Giarrusso <p.giarrusso@gmail.com>
Paolo Martini <mrtnpaolo@gmail.com>
Parker Moore <parkermoore@gmail.com>
Parminder Singh <parmsingh101@gmail.com>
Pascal S. de Klo <pascal@quies.net>
Pat Moroney <pat@pat.email>
Patrick Crosby <patrick@stathat.com>
Patrick Gavlin <pgavlin@gmail.com>
Patrick Higgins <patrick.allen.higgins@gmail.com>
Patrick Lee <pattyshack101@gmail.com>
Patrick Mzard <patrick@mezard.eu>
Patrick Mylund Nielsen <patrick@patrickmn.com>
Patrick Pelletier <pp.pelletier@gmail.com>
Patrick Riley <pfr@google.com>
Patrick Smith <pat4smith@gmail.com>
Paul A Querna <paul.querna@gmail.com>
Paul Borman <borman@google.com>
Paul Boyd <boyd.paul2@gmail.com>
Paul Chang <paulchang@google.com>
Paul Hammond <paul@paulhammond.org>
Paul Hankin <paulhankin@gmail.com>
Paul Jolly <paul@myitcv.org.uk>
Paul Lalonde <paul.a.lalonde@gmail.com>
Paul M Furley <paul@paulfurley.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Phillip Stephani <phst@google.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@helloworld.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Varanasi <prashant@prashantv.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <silsh1022@gmail.com>
Quan Tran <qued.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Raph Leven <raph@google.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilveira@google.com>
Ravil Bikbulatov <weeellz12@gmail.com>
RaviTeja Pothana <ravi.tezu@gmail.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <tamin01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fnlc>
Troels Thomsen <troels@thomsen.io>
Trung Nguyen <trung.n.k@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tu Shan <sturbo89@gmail.com> <shantuo@google.com>
Tyler Bui-Palsulich <tpalsulich@gmail.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangiparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostoyzb@gmail.com>
Viacheslav Poturaev <vearutop@gmail.com>
Victor Chudnovsky <vchudnov@gmail.com>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@gmail.com>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vinu Rajashekhar <vinutheraj@gmail.com>
Vish Subramanian <vish@gmail.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara R <rvisweswara@gmail.com>
Vitor De Mario <vitordemario@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Kovpak <cn007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <snek.narqo@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotsky <vpaprots@ca.ibm.com>
W. Trevor King <wking@tremily.us>
Wade Simmons <wade@wades.im>
Walter Poupore <wpoupore@google.com>
Wander Lairson Costa <wcosta@mozilla.com>
Warren Fernandes <warren.f.fernandes@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@google.com>
Weerasak Chongnguluam <singpor@gmail.com>
Wi Cngru <crvv.mail@gmail.com>
Wei Fu <fhuwei@163.com>
Wei Guanjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Weichao Tang <tevic.tt@gmail.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
Wil Selwood <w.selwood@gmail.com>
Wilfried Teiken <wteiken@google.com>
Will Beason <willbeason@gmail.com>
Will Chan <willchan@google.com>
Will Faught <will.faught@gmail.com>
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>
Will Norris <willnorris@gmail.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Chang <mr.williamchang@gmail.com>
William Josephson <wjosephson@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xry23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xing Xing <mikespook@gmail.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicedalias.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzts@desire.sh>
Yan Zou <yzou@google.com>
Yann Hodique <yhodique@google.com>
Yann Kerherv <yann.kerherve@gmail.com>
Yann Salan <yannsalaun1@gmail.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@google.com>
Yasha Bubnov <girokompass@gmail.com>
Yasuharu Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yasuyuki Oka <yasuyk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <ylh@pdx.edu>
Yesudeep Mangalapilly <yesudeep@google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yohei Takeda <yo.tak0812@gmail.com>
Yongjian Xu <i3dmaster@gmail.com>
Yorman Arias <cixtords@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yuji Yaginuma <yuiji.yaginuma@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yugui Sonoda <yugui@google.com>
Yukihiro Nishinaka <gelpinal@gmail.com>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zhokover <paulzhol@gmail.com>
Yves Junqueira <yvesj@gmail.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gershman <zaghersh@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Gershman <zgershman@pivotal.io>
Zak <zrjknill@gmail.com>
Zakatell Kanda <hi@zkanda.io>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zheng Dayu <davidzheng23@gmail.com>
Zheng Xu <zheng.xu@arm.com>
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Zhongpeng Lin <zplin@uber.com>
Zhongtao Chen <chenzhongtao@126.com>
Zhongwei Yao <zhongwei.yao@arm.com>
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AUTHOR

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Peter Schaffter (peter@schaffter.ca)
3-355 Lafontaine Ave
Vanier (ON) CANADA
K1L 6X6

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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
src/include/XFontName.h
```
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-------------

. The `-mdoc` macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
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  tmac/groff_mdoc.man

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  doc/meintro_fr.me
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---------------------

. The file `tmac/hyphen.us` is identical to the file `hyphen.tex`, part of
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Major Component, or to implement a Standard Interface for which an
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(kernel, window system, and so on) of the specific operating system
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm
Apache

The following artifacts are ASL2 licensed.

- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

MortBay

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- org.mortbay.jasper:apache-jsp
- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli
- org.apache.tomcat:tomcat-jsp-api
- org.apache.tomcat:tomcat-el-api
- org.apache.tomcat:tomcat-jasper-el
- org.apache.tomcat:tomcat-api
- org.apache.tomcat:tomcat-util-scan
- org.apache.tomcat:tomcat-util
- org.mortbay.jasper:apache-el
- org.apache.tomcat:tomcat-jasper-el
- org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

- org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.2811 jackson-jaxrs 2.9.10

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.2812 pipexec 2.5.5-1

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1.2814 kubernetes-apimachinery 0.21.0-rc.0

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1.2815 spew 1.1.1

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1.2816 githubcomsatorigouuid v1.2.0

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1.2817 x-time-rate 0.0.0-20210220033141-f8bda1e9f3ba

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

type sentinel struct {
    Name string
    Age   int
}

var sentinels = []sentinel{
    "Copyright",
    "Other copyright",
}
"Google",
'Licensed under the Apache License, Version 2.0 (the "License");'
}

func TestLicense(t *testing.T) {
t.Parallel()
err := filepath.Walk("", func(path string, fi os.FileInfo, err error) error {
if err != nil {
return err
}
if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
return nil
}
if strings.HasSuffix(path, ".pb.go") {
// .pb.go files are generated from the proto files.
// .proto files must have license headers.
return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
// Automatically generated.
return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
    t.Errorf("%v: license header not present. want %q", path, sentinel)
return nil
}
}

return nil
}
if err != nil {
t.Fatal(err)
}
1.2820 x-crypto 0.0.0-20200510223506-06a226fb4e37

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1.2821 linux-base 4.5ubuntu1.6

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = []byte(`{"name":"the name","url":"the url"}`)
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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// See the License for the specific language governing permissions and
// limitations under the License.
// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"
}

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1.2825 urllib3 1.21.1

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# 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/@WBRSRIBZDhBFQXb6/>
  * Code review, PEP8 compliance, benchmark fix
* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* 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 <http://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 <http://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 <http://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

* Jon Wayne Parrott <jonwayne@google.com>
* App Engine environment tests.

* 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>
  * Bugfix related to ca_cert file paths.

* 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

* Jesse 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@smarkets.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.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccooleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Sindelar <adamsh@gmail.com>
Adam Thomason <atthomason@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aecciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <phpprogger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed Wahed <oneofone@gmail.com>
Ahmet Alp Balkan <ahmetb@gmail.com>
Ahmet Soormally <ahmet@mangomm.co.uk>
Ahmy Yulrizka <yulrizka@gmail.com>
Aiden Scandella <ai@uber.com>
Ainar Garipov <gugl.zadolbal@gmail.com>
Aishraj Dahal <aishraj@users.noreply.github.com>
Akhil Indurti <contact@akhilindurti.com>
Akihiro Suda <suda.kyoto@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Alan Braithwaite <alan@ipaddr.org>
Alan Donovan <adonovan@gmail.com>
Alan Shreve <alan@inconshreveable.com>
Albert Nigmatzianov <albertnigma@gmail.com>
Albert Strasheim <fullung@gmail.com>
Albert Yu <yukinying@gmail.com>
Andrew Radev <andrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Stribblehill <ads@wompom.org>
Andrew Szeto <andrew@jabagawee.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.upthere.com>
Andrey Mirtchovski <mirtchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmus@aloney@gmail.com>
Andy Walker <walkeraj@gmail.com>
Andzej Maciusovic <andzej.maciusovic@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Anit Gandhi <anitgandhi@gmail.com>
Ankit Goyal <ankit3goyal@gmail.com>
Anmol Sethi <anmol@albble.com>
Anschel Schaffer-Cohen <anschel.sc@gmail.com>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony.canino1@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony Fok <foka@debian.org>
Anthony Martin <alilty@pbrane.org>
Anthony Sottile <asottile@umich.edu>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Antoine GIRARD <sapk@sapk.fr>
Antoine Martin <antoine97.martin@gmail.com>
Anton Gyllenberg <anton@iki.fi>
Antonin Amand <antonin.amand@gmail.com>
Antonio Antelo <aantelov87@gmail.com>
Antonio Bibiano <anthos@gmail.com>
Antonio Murdaca <runcom@redhat.com>
Antonio Troina <thoeni@gmail.com>
Apisak Darakananda <pongad@gmail.com>
Aram Hvrneanu <aram@mgk.ro>
Areski Belaid <areski@gmail.com>
Ariel Mashraki <ariel@mashraki.co.il>
Datong Sun <dndx@idndx.com>
Dave Borowitz <dborowitz@google.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusuan@gmail.com>
Dave Russell <forfuncsake@gmail.com>
David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@gmail.com>
David Brophy <dave@brophy.uk>
David Brigin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Carlier <devnexen@gmail.com>
David Chase <drchase@gmail.com>
David Covert <davidhcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@gmail.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Heuschmann <heuschmann.d@gmail.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Jones <dxjones@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@gmail.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dssymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Timm <dtimm@pivotal.io>
David Titarenco <david.titarenco@gmail.com>
David Tolpin <david.tolpin@gmail.com>
David Url <david@url.io>
David Volquartz Lebech <david@lebech.info>
David Wimmer <davidlwimmer@gmail.com>
Davies Liu <daviesliu@gmail.com>
Davor Kapsa <davor.kapsa@gmail.com>
Dean Prichard <dean.prichard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Doug Fawley <dfawley@google.com>
Douglas Danger Manley <doug.manley@gmail.com>
Drew Flower <drewvanstone@gmail.com>
Drew Hintz <adhintz@google.com>
Duncan Holm <mail@frou.org>
Dustin Carlino <dcarlino@google.com>
Dustin Herbison <djherbis@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <deloues@gmail.com>
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>
Dylan Waits <dylan@waits.io>
Edan Bedrik <3d4nb3@gmail.com>
Eden Li <eden.li@gmail.com>
Eduard Urbach <e.urbach@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Ugedal <eivind@ugdedal.com>
Elbert Flik <eflick@gmail.com>
Eldar Rakhimberdin <ibeono@gmail.com>
Elena Grahovac <elena@grahovac.me>
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Emerson Lin <linyintor@gmail.com>
Emil Hessman <email@hessman.se>
Emil Mursalimov <mursalimovemeel@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eno Compton <enocom@gmail.com>
Eoghan Sherry <ejsherry@gmail.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@gmail.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Erik Aigner <aigner.erik@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francisco Campoy <campoy@golang.org>
Francisco Claude <fclaude@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza < franciscossouza@gmail.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <fsomers@arista.com>
Frederic Guillot <f Frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <f github@frew.co>
Frithjof Schulze <schulze@math.uni-hannover.de> <sf rithjof@gmail.com>
Frits van Bommel <fvbommel@gmail.com>
Fumitoshi Ukai <ukai@google.com>
G. Hussain Chinoy <gh chinoy@gmail.com>
Gaal Yahas <gaal@google.com>
Gabrel Arthr Pthursson < gabriel@system.is>
Gabriel Aszalos < gabriel.aszalos@gmail.com>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Russell <g abriel.russell@gmail.com>
Gareth Paul Jones <gpj@ foursquare.com>
Garret Kelly < g dk@google.com>
Garrick Evans < g arrick@google.com>
Gary Burd <g ary@beagledreams.com> <g ary.burd@gmail.com>
Gary Elliott < g ary ello tt@gmail.com>
Gaurish Sharma < contact@gaurishsharma.com>
Gautham Thambidorai < g autham.dorai@gmail.com>
Gauthier Jolly < g authier.jolly@gmail.com>
Geert-Johan Riemer <gjr19912@gmail.com>
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Geoff Berry <g berry.q dt@qualcommdatacenter.com>
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Geon Kim <geon0250@gmail.com>
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George Gkirtsou < ggirtsou@gmail.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gergely Brautigam <skarlso 777@gmail.com>
Getulio Sanchez <valentin2507@gmail.com>
Gianguido Sora` < g.sora4@gmail.com>
Gideon Jan-Wessel Redelinghuys <g jredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
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GitHub User @bgadrian (830001) <aditza8@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cch123 (384546) <buaa.cch@gmail.com>
GitHub User @chaxuehong (3416908) <chaxuehong@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @OlgaVlPetrova (44112727) <OVPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmllewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@gmail.com>
Greg Ward <greg@gerg.ca>
Grgoire Delattre <gregoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guillaume J. Charmes <guillaume@charmes.net>
Guobiao Mei <meiguobiao@gmail.com>
Guoliang Wang <iamwgliang@gmail.com>
Jon Chen <jchen@justin.tv>
Jonas Bernoulli <jonas@bernoul.li>
Jonathan Allie <jonalie@google.com>
Jonathan Amsterdam <jba@google.com>
Jonathan Boulle <jonathanboule@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.github.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhsae@gmail.com>
Jonathan Mark <jmark@xenops.com> <jmark000@gmail.com>
Jonathan Nieder <jn@google.com>
Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@gmail.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Rhee <jordanrh@microsoft.com>
Jos Visser <josv@google.com>
Jose Luis Vzquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@gmail.com>
Josh Holland <jrh@joshh.co.uk>
Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jcjoshuachase@gmail.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@gmail.com>
JT Olds <jtolds@xnet5.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebpereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@gmail.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmovj@gmail.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kauffmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julio Montes <julio.montes@intel.com>
Junda Liu <junda@CELER.network>
Jungho Ahn <jhahn@google.com>
Junya Hayashi <ledmonster@gmail.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <igracenin@gmail.com>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justyntemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Trukenmiller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kamal Aboul-Hosn <abouhlhosn@google.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukangustc@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karoly Negyesi <chx1975@gmail.com>
Karsten Kohler <karsten.koehler95@gmail.com>
Kashav Madan <kshvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Katie Hockman <katie@golang.org>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>
Kay Zhu <kayzhu@gmail.com>
Kazuhiro Sera <seratch@gmail.com>
KB Sriram <kbsriram@gmail.com>
Keegan Carruthers-Smith <keegan.csmith@gmail.com>
Kei Son <hey.calmdown@gmail.com>
Keiji Yoshida <keijiyoshida.mail@gmail.com>
Keith Ball <inflatablewoman@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <kr@xph.us>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Ken Friedenbach <kenliz@cruzio.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>
Kenji Kaneda <kenji.kaneda@gmail.com>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louis@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@gmail.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefole <luigi.riefole@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mpeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <maiconscosta@gmail.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael McLoughlin</td>
<td><a href="mailto:mmcloughlin@gmail.com">mmcloughlin@gmail.com</a></td>
</tr>
<tr>
<td>Michael Munday</td>
<td><a href="mailto:mike.munday@ibm.com">mike.munday@ibm.com</a></td>
</tr>
<tr>
<td>Michael Pearson</td>
<td><a href="mailto:mipearson@gmail.com">mipearson@gmail.com</a></td>
</tr>
<tr>
<td>Michael Piatek</td>
<td><a href="mailto:piatek@google.com">piatek@google.com</a></td>
</tr>
<tr>
<td>Michael Pratt</td>
<td><a href="mailto:mpratt@google.com">mpratt@google.com</a></td>
</tr>
<tr>
<td>Michael Schaller</td>
<td><a href="mailto:michael@5challer.de">michael@5challer.de</a></td>
</tr>
<tr>
<td>Michael Schurter</td>
<td><a href="mailto:michael.schurter@gmail.com">michael.schurter@gmail.com</a></td>
</tr>
<tr>
<td>Michael Shields</td>
<td><a href="mailto:mshields@google.com">mshields@google.com</a></td>
</tr>
<tr>
<td>Michael Stapelberg</td>
<td><a href="mailto:michael@stapelberg.de">michael@stapelberg.de</a></td>
</tr>
<tr>
<td>Michael Steinert</td>
<td><a href="mailto:mike.steinert@gmail.com">mike.steinert@gmail.com</a></td>
</tr>
<tr>
<td>Michael T. Jones</td>
<td><a href="mailto:mtj@google.com">mtj@google.com</a></td>
</tr>
<tr>
<td>Michael Teichgruber</td>
<td><a href="mailto:mteichgraeber@gmx.de">mteichgraeber@gmx.de</a></td>
</tr>
<tr>
<td>Michael Traver</td>
<td><a href="mailto:mtraver@gmail.com">mtraver@gmail.com</a></td>
</tr>
<tr>
<td>Michael Vetter</td>
<td><a href="mailto:g.bluehut@gmail.com">g.bluehut@gmail.com</a></td>
</tr>
<tr>
<td>Michał Bohuslvek</td>
<td><a href="mailto:mbohuslavek@gmail.com">mbohuslavek@gmail.com</a></td>
</tr>
<tr>
<td>Michał Cierniak</td>
<td><a href="mailto:cierniak@gmail.com">cierniak@gmail.com</a></td>
</tr>
<tr>
<td>Michała Derkacz</td>
<td><a href="mailto:ziutek@l.net.pl">ziutek@l.net.pl</a></td>
</tr>
<tr>
<td>Michał Franc</td>
<td><a href="mailto:lam.michal.franc@gmail.com">lam.michal.franc@gmail.com</a></td>
</tr>
<tr>
<td>Michał Pristas</td>
<td><a href="mailto:michal.pristas@gmail.com">michal.pristas@gmail.com</a></td>
</tr>
<tr>
<td>Michał Rostecki</td>
<td><a href="mailto:mrostecki@suse.de">mrostecki@suse.de</a></td>
</tr>
<tr>
<td>Michalis Kargakis</td>
<td><a href="mailto:michaliskargakis@gmail.com">michaliskargakis@gmail.com</a></td>
</tr>
<tr>
<td>Michel Lespinasse</td>
<td><a href="mailto:walken@gmail.com">walken@gmail.com</a></td>
</tr>
<tr>
<td>Miek Gieben</td>
<td><a href="mailto:miek@miek.nl">miek@miek.nl</a></td>
</tr>
<tr>
<td>Miguel Mendez</td>
<td><a href="mailto:stxmendez@gmail.com">stxmendez@gmail.com</a></td>
</tr>
<tr>
<td>Miguel Molina</td>
<td><a href="mailto:hi@mvader.me">hi@mvader.me</a></td>
</tr>
<tr>
<td>Mihai Borobocea</td>
<td><a href="mailto:MihaiBorobocea@gmail.com">MihaiBorobocea@gmail.com</a></td>
</tr>
<tr>
<td>Mihai Todor</td>
<td><a href="mailto:todormihai@gmail.com">todormihai@gmail.com</a></td>
</tr>
<tr>
<td>Mihail Minaev</td>
<td><a href="mailto:minaev.mike@gmail.com">minaev.mike@gmail.com</a></td>
</tr>
<tr>
<td>Mikael Tillienius</td>
<td><a href="mailto:mikti42@gmail.com">mikti42@gmail.com</a></td>
</tr>
<tr>
<td>Mike Andrews</td>
<td><a href="mailto:mra@xoba.com">mra@xoba.com</a></td>
</tr>
<tr>
<td>Mike Appleby</td>
<td><a href="mailto:mike@app.leyb.org">mike@app.leyb.org</a></td>
</tr>
<tr>
<td>Mike Danese</td>
<td><a href="mailto:mikedanese@gmail.com">mikedanese@gmail.com</a></td>
</tr>
<tr>
<td>Mike Houston</td>
<td><a href="mailto:mike@kothar.net">mike@kothar.net</a></td>
</tr>
<tr>
<td>Mike Kabischev</td>
<td><a href="mailto:kabischev@gmail.com">kabischev@gmail.com</a></td>
</tr>
<tr>
<td>Mike Rosset</td>
<td><a href="mailto:mike.roset@gmail.com">mike.roset@gmail.com</a></td>
</tr>
<tr>
<td>Mike Samuel</td>
<td><a href="mailto:mikesamuel@gmail.com">mikesamuel@gmail.com</a></td>
</tr>
<tr>
<td>Mike Solomon</td>
<td><a href="mailto:msolo@gmail.com">msolo@gmail.com</a></td>
</tr>
<tr>
<td>Mike Strosaker</td>
<td><a href="mailto:strosake@us.ibm.com">strosake@us.ibm.com</a></td>
</tr>
<tr>
<td>Mike Tsao</td>
<td><a href="mailto:mike@sowbug.com">mike@sowbug.com</a></td>
</tr>
<tr>
<td>Mike Wiacek</td>
<td><a href="mailto:mjwiacek@gmail.com">mjwiacek@gmail.com</a></td>
</tr>
<tr>
<td>Mikhail Gusarov</td>
<td><a href="mailto:dottedmag@dottedmag.net">dottedmag@dottedmag.net</a></td>
</tr>
<tr>
<td>Mikhail Panchenko</td>
<td><a href="mailto:m@mihasya.com">m@mihasya.com</a></td>
</tr>
<tr>
<td>Miki Tebeka</td>
<td><a href="mailto:miki.tebeka@gmail.com">miki.tebeka@gmail.com</a></td>
</tr>
<tr>
<td>Mikio Hara</td>
<td><a href="mailto:mikioh.mikioh@gmail.com">mikioh.mikioh@gmail.com</a></td>
</tr>
<tr>
<td>Mikkel Krautz</td>
<td><a href="mailto:mikkel@krautz.dk">mikkel@krautz.dk</a></td>
</tr>
<tr>
<td>Mikolaj Baranowski</td>
<td><a href="mailto:mikolajb@gmail.com">mikolajb@gmail.com</a></td>
</tr>
<tr>
<td>Milan Knezевич</td>
<td>milan.knezевич@mips.com</td>
</tr>
<tr>
<td>Milutin Jovanovic</td>
<td><a href="mailto:jovanovic.milutin@gmail.com">jovanovic.milutin@gmail.com</a></td>
</tr>
</tbody>
</table>
Rob Norman <rob.norman@infinitycloud.com>
Rob Phoenix <rob@robpheonix.com>
Rob Pike <r@golang.org>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
Robert Dinu <r@varp.se>
Robert Figueiredo <robfieg@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <rober.hencke@gmail.com>
Robert Iannucci <iannucci@google.com>
Robert Obryk <robryk@gmail.com>
Robert Sesek <rsesek@yandex.com>
Robert Snedegar <roberts@gmail.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert-Andr Mauchin <zebob.m@gmail.com>
Roberto Clapis <robcap8@gmail.com>
Roberto Selbach <roberto@selbach.ca>
Robin Eklind <r.eklind.87@gmail.com>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Rodolfo Rodriguez <rodolfobgibson@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>
Roger Pau Monn <rogyer@gmail.com>
Roger Peppe <rogepepe@gmail.com>
Roland Illig <roland.illig@gmx.de>
Roland Shoemaker <rolandsboemaker@gmail.com>
Roman Budnikov <romanyx90@yandex.ru>
Roman Shchekin <nrqtros@gmail.com>
Ron Hashimoto <mail@h2so5.net>
Ron Minnich <rminnich@gmail.com>
Ross Chater <rdchater@gmail.com>
Ross Light <light@google.com> <rlight2@gmail.com>
Ross Smith II <ross@smithii.com>
Rowan Marshall <rowanjammarshall@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rudi Kramer <rudi.kramer@gmail.com>
Rui Ueyama <ruiu@gmail.com>
Ruslan Nigmatullin <elessar@dropbox.com>
Russ Cox <rscc@golang.org>
Russell Haering <russellhaering@gmail.com>
Ryan Bagwell <ryanbagwell@outlook.com>
Ryan Barrett <ryanb@gmail.com>
Ryan Boehning <ryan.boehning@apcera.com>
Ryan Brown <ribdb@gmail.com>
Ryan Canty <jrcanty@gmail.com>
Ryan Dahl <ry@tinyclouds.org>
Ryan Hitchman <hitchmanr@gmail.com>
Ryan Lower <rplower@gmail.com>
Ryan Roden-Corrent <ryan@rcorre.net>
Ryan Seys <ryan@ryanseys.com>
Ryan Slade <ryanslade@gmail.com>
Ryan Zhang <ryan.zhang@docker.com>
Ryoichi KATO <ryo1kato@gmail.com>
Ryuu Iwata <qt.luigi@gmail.com>
Ryuma Yoshida <ryuma.y1117@gmail.com>
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>
S.alar Onur <caglar@10ur.org>
Sabin Mihai Rapan <sabin.rapan@gmail.com>
Sai Cheemalapati <saicheems@google.com>
Sakeven Jiang <jc5930@sina.cn>
Salmn Aljammz <s@0x65.net>
Sam Boyer <tech@samboyer.org>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic@google.com>
Sami Pnknen <sami.ponkanen@gmail.com>
Samuel Kelemen <SCKelemen@users.noreply.github.com>
Samuel Tan <samultan@gmail.com>
Samuele Pedroni <pedronis@lucediurna.net>
Sanjay Menakuru <balasanjay@gmail.com>
Santhosh Kumar Tekuri <santhosh.tekuri@gmail.com>
Sarah Adams <shadams@google.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@google.com>
Sasha Sobol <sasha@scaledinference.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottfwerg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@google.com>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <seane@joyent.com>
Sean Christopherson < sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
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1.2843 lib-pq 1.3.0
1.2843.1 Available under license:
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# node-libpq

[![Build Status](https://travis-ci.org/brianc/node-libpq.svg?branch=master)](https://travis-ci.org/brianc/node-libpq)

Node native bindings to the PostgreSQL [libpq](http://www.postgresql.org/docs/9.3/interactive/libpq.html) C client library. This module attempts to mirror as closely as possible the C API provided by libpq and provides the absolute minimum level of abstraction. It is intended to be extremely low level and allow you the same access as you would have to libpq directly from C, except in node.js! The obvious trade-off for being "close to the metal" is having to use a very "c style" API in JavaScript.

If you have a good understanding of libpq or used it before hopefully the methods within node-libpq will be
familiar; otherwise, you should probably spend some time reading [the official libpq C library documentation](http://www.postgresql.org/docs/9.3/interactive/libpq.html) to become a bit familiar. Referencing the libpq documentation directly should also provide you with more insight into the methods here. I will do my best to explain any differences from the C code for each method.

I am also building some [higher level abstractions](https://github.com/brianc/node-pg-native) to eventually replace the `pg.native` portion of node-postgres. They should help as reference material.

This module relies heavily on [nan](https://github.com/rvagg/nan) and wouldn't really be possible without it. Mucho thanks to the node-nan team.

## install

You need libpq installed & the `pg_config` program should be in your path. You also need [node-gyp](https://github.com/TooTallNate/node-gyp) installed.

```
$ npm install libpq
```

## use

```
var Libpq = require('libpq');  
var pq = new Libpq();
```

## API

### connection functions

Libpq provides a few different connection functions, some of which are "not preferred" anymore. I've opted to simplify this interface a bit into a single __async__ and single __sync__ connection function. The function accepts an connection string formatted as outlined [in this documentation in section 31.1.1](http://www.postgresql.org/docs/9.3/static/libpq-connect.html). If the parameters are not supplied, libpq will automatically use environment variables, a pgpass file, and other options. Consult the libpq documentation for a better rundown of all the ways it tries to determine your connection parameters.

I personally __always__ connect with environment variables and skip supplying the optional `connectionParams`. Easier, more 12 factor app-ish, and you never risk hard coding any passwords. YMMV. :smile:

```
  `pq.connect([connectionParams:string], callback:function)`
```

Asynchronously attempts to connect to the postgres server.

- `connectionParams` is an optional string
- `callback` is mandatory. It is called when the connection has successfully been established.
__async__ Connects to a PostgreSQL backend server process.

This function actually calls the `PQconnectdb` blocking connection method in a background thread within node's internal thread-pool. There is a way to do non-blocking network I/O for some of the connecting with libpq directly, but it still blocks when your local file system looking for config files, SSL certificates, .pgpass file, and doing possible dns resolution. Because of this, the best way to get _fully_ non-blocking is to use use `libuv_queue_work` and let node do it's magic and so that's what I do. This function _does not block_.

```
##### `pq.connectSync([connectionParams:string])`
```

Attempts to connect to a PostgreSQL server. __BLOCKS__ until it either succeeds, or fails. If it fails it will throw an exception.

- `connectionParams` is an optional string

```
##### `pq.finish()`
```

Disconnects from the backend and cleans up all memory used by the libpq connection.

### Connection Status Functions

```
##### `pq.errorMessage():string`
```

Retrieves the last error message from the connection. This is intended to be used after most functions which return an error code to get more detailed error information about the connection. You can also check this _before_ issuing queries to see if your connection has been lost.

```
##### `pq.socket():int`
```

Returns an int representing the file descriptor for the socket used internally by the connection

### Sync Command Execution Functions

```
##### `pq.exec(commandText:string)`
```

__sync__ sends a command to the backend and blocks until a result is received.

- `commandText` is a required string of the query.

```
##### `pq.execParams(commandText:string, parameters:array[string])`
```

__sync__ sends a command and parameters to the backend and blocks until a result is received.

- `commandText` is a required string of the query.
- `parameters` is a required array of string values corresponding to each parameter in the commandText.

```
##### `pq.prepare(statementName:string, commandText:string, nParams:int)`
```

__sync__ sends a named statement to the server to be prepared for later execution. blocks until a result from the
prepare operation is received.

- `statementName` is a required string of name of the statement to prepare.
- `commandText` is a required string of the query.
- `nParams` is a count of the number of parameters in the commandText.

```javascript
### pq.execPrepared(statementName:string, parameters:array[string])
__sync__ sends a command to the server to execute a previously prepared statement. blocks until the results are returned.

- `statementName` is a required string of the name of the prepared statement.
- `parameters` are the parameters to pass to the prepared statement.
```

#### Async Command Execution Functions

In libpq the async command execution functions _only_ dispatch a request to the backend to run a query. They do not start result fetching on their own. Because libpq is a C api there is a somewhat complicated "dance" to retrieve the result information in a non-blocking way. node-libpq attempts to do as little as possible to abstract over this; therefore, the following functions are only part of the story. For a complete tutorial on how to dispatch & retrieve results from libpq in an async way you can [view the complete approach here](https://github.com/brianc/node-pg-native/blob/master/index.js#L105)

```javascript
### pq.sendQuery(commandText:string):boolean
__async__ sends a query to the server to be processed.

- `commandText` is a required string containing the query text.

Returns `true` if the command was sent succesfully or `false` if it failed to send.

```javascript
### pq.sendQueryParams(commandText:string, parameters:array[string]):boolean
__async__ sends a query and to the server to be processed.

- `commandText` is a required string containing the query text.
- `parameters` is an array of parameters as strings used in the parameterized query.

Returns `true` if the command was sent succesfully or `false` if it failed to send.

```javascript
### pq.sendPrepare(statementName:string, commandText:string, nParams:int):boolean
__async__ sends a request to the backend to prepare a named statement with the given name.

- `statementName` is a required string of name of the statement to prepare.
- `commandText` is a required string of the query.
- `nParams` is a count of the number of parameters in the commandText.

Returns `true` if the command was sent succesfully or `false` if it failed to send.

```javascript
### pq.sendQueryPrepared(statementName:string, parameters:array[string]):boolean
__async__ sends a request to execute a previously prepared statement.
- `statementName` is a required string of the name of the prepared statement.
- `parameters` are the parameters to pass to the prepared statement.

```
```

`pq.getResult():boolean`

Parses received data from the server into a `PGresult` struct and sets a pointer internally to the connection object to this result. __warning__: this function will __block__ if libpq is waiting on async results to be returned from the server. Call `pq.isBusy()` to determine if this command will block.

Returns `true` if libpq was able to read buffered data & parse a result object. Returns `false` if there are no results waiting to be parsed. Generally doing async style queries you'll call this repeatedly until it returns false and then use the result accessor methods to pull results out of the current result set.

### Result accessor functions

After a command is run in either sync or async mode & the results have been received, node-libpq stores the results internally and provides you access to the results via the standard libpq methods. The difference here is libpq will return a pointer to a PGresult structure which you access via libpq functions, but node-libpq stores the most recent result within itself and passes the opaque PGresult structure to the libpq methods. This is to avoid passing around a whole bunch of pointers to unmanaged memory and keeps the burden of properly allocating and freeing memory within node-libpq.

```
```

`pq.resultStatus():string`

Returns either `PGRES_COMMAND_OK` or `PGRES_FATAL_ERROR` depending on the status of the last executed command.

```
```

`pq.resultErrorMessage():string`

Retrieves the error message from the result. This will return `null` if the result does not have an error.

```
```

`pq.resultErrorFields():object`

Retrieves detailed error information from the current result object. Very similar to `PQresultErrorField()` except instead of passing a fieldCode and retrieving a single field, retrieves all fields from the error at once on a single object. The object returned is a simple hash, _not_ an instance of an error object. Example: if you wanted to access `PG_DIAG_MESSAGE_DETAIL` you would do the following:

```
```js
    console.log(pq.errorFields().messageDetail)
```

```
```

`pq.clear()`

Manually frees the memory associated with a `PGresult` pointer. Generally this is called for you, but if you absolutely want to free the pointer yourself, you can.

```
```

`pq.ntuples():int`
Retrieve the number of tuples (rows) from the result.

```
pq.nfields():int
```

Retrieve the number of fields (columns) from the result.

```
pq.fname(fieldNumber:int):string
```

Retrieve the name of the field (column) at the given offset. Offset starts at 0.

```
pq.ftype(fieldNumber:int):int
```

Retrieve the `Oid` of the field (column) at the given offset. Offset starts at 0.

```
pq.getvalue(tupleNumber:int, fieldNumber:int):string
```

Retrieve the text value at a given tuple (row) and field (column) offset. Both offsets start at 0. A null value is returned as the empty string `''`.

```
pq.getisnull(tupleNumber:int, fieldNumber:int):boolean
```

Returns `true` if the value at the given offsets is actually `null`. Otherwise returns `false`. This is because `pq.getvalue()` returns an empty string for both an actual empty string and for a `null` value. Weird, huh?

```
pq.cmdStatus():string
```

Returns the status string associated with a result. Something akin to `INSERT 3 0` if you inserted 3 rows.

```
pq.cmdTuples():string
```

Returns the number of tuples (rows) affected by the command. Even though this is a number, it is returned as a string to mirror libpq's behavior.

### Async socket access

These functions don't have a direct match within libpq. They exist to allow you to monitor the readability or writability of the libpq socket based on your platforms equivalent to `select()`. This allows you to perform async I/O completely from JavaScript.

```
pq.startReader()
```

This uses libuv to start a read watcher on the socket open to the backend. As soon as this socket becomes readable the `pq` instance will emit a `readable` event. It is up to you to call `pq.consumeInput()` one or more times to clear this read notification or it will continue to emit read events over and over and over. The exact flow is outlined [here] under the documentation for `PQisBusy`.

```
pq.stopReader()
```
Tells libuv to stop the read watcher on the connection socket.

##### `pq.writable(callback:function)`

Call this to make sure the socket has flushed all data to the operating system. Once the socket is writable, your callback will be called. Usefully when using ‘PQsetNonBlocking’ and ‘PQflush’ for async writing.

### More async methods

These are all documented in detail within the [libpq documentation](http://www.postgresql.org/docs/9.3/static/libpqasync.html) and function almost identically.

##### `pq.consumeInput():boolean`

Reads waiting data from the socket. If the socket is not readable and you call this it will __block__ so be careful and only call it within the ‘readable’ callback for the most part.

Returns ‘true’ if data was read. Returns ‘false’ if there was an error. You can access error details with ‘pq.errorMessage’.

##### `pq.isBusy():boolean`

Returns ‘true’ if calling `pq.consumeInput()` would block waiting for more data. Returns ‘false’ if all data has been read from the socket. Once this returns ‘false’ it is safe to call `pq.getResult()`

##### `pq.setNonBlocking(nonBlocking:boolean):boolean`

Toggle the socket blocking on _write_. Returns ‘true’ if the socket's state was successfully toggled. Returns ‘false’ if there was an error.

- ‘nonBlocking’ is ‘true’ to set the connection to use non-blocking writes. ‘false’ to use blocking writes.

##### `pq.flush():int`

Flushes buffered data to the socket. Returns ‘1’ if socket is not write-ready at which case you should call `pq.writable` with a callback and wait for the socket to be writable and then call `pq.flush()` again. Returns ‘0’ if all data was flushed. Returns ‘-1’ if there was an error.

### listen/notify

##### `pq.notifies():object`

Checks for ‘NOTIFY’ messages that have come in. If any have been received they will be in the following format:

```js
var msg = {
  relname: 'name of channel',
```

```
### COPY IN/OUT

```
##### `pq.putCopyData(buffer:Buffer):int`

After issuing a successful command like `COPY table FROM stdin` you can start putting buffers directly into the
data base with this function.

- `buffer` Is a required node buffer of text data such as `Buffer('column1\tcolum2\n')`

Returns `-1` if sent successfully. Returns `0` if the command would block (only if you have called`
`pq.setNonBlocking(true)`). Returns `-1` if there was an error sending the command.

##### `pq.putCopyEnd([errorMessage:string])`

Signals the backed your copy procedure is complete. If you pass `errorMessage` it will be sent to the backend and
effectively cancel the copy operation.

- `errorMessage` is an _optional_ string you can pass to cancel the copy operation.

Returns `-1` if sent successfully. Returns `0` if the command would block (only if you have called`
`pq.setNonBlocking(true)`). Returns `-1` if there was an error sending the command.

##### `pq.getCopyData(async:boolean):Buffer or int`

After issuing a successfuly command like `COPY table TO stdout` gets copy data from the connection.

Returns a node buffer if there is data available.

Returns `0` if the copy is still in progress (only if you have called `pq.setNonBlocking(true)`). Returns `-1` if the
copy is completed. Returns `-2` if there was an error.

- `async` is a boolean. Pass `false` to __block__ waiting for data from the backend. _defaults to `false`_

### Misc Functions

```
##### `pq.escapeLiteral(input:string):string`

Exact copy of the `PQescapeLiteral` function within libpq. Requires an established connection but does not perform
any I/O.

##### `pq.escapeIdentifier(input:string):string`

"```
Exact copy of the `PQescapeIdentifier` function within libpq. Requires an established connection but does not perform any I/O.

```c
pq.cancel():true -or- string
```

Issues a request to cancel the currently executing query _on this instance of libpq_. Returns `true` if the cancel request was sent. Returns a `string` error message if the cancel request failed for any reason. The string will contain the error message provided by libpq.

## testing
```
```

To run the tests you need a PostgreSQL backend reachable by typing `psql` with no connection parameters in your terminal. The tests use environment variables [http://www.postgresql.org/docs/9.3/static/libpq-envars.html](http://www.postgresql.org/docs/9.3/static/libpq-envars.html) to connect to the backend.

An example of supplying a specific host the tests:
```
```

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1.2844.1 Available under license:

Apache-Test was originally developed by:

Doug MacEachern <dougm@cpan.org>

Now maintained by:

Fred Moyer <fred@redhotpenguin.com>
Philip M. Gollucci <pgollucci@p6m7g8.com>

with contributions from the following helpful people
(in alphabetical order):

Alessandro Forghieri <Alessandro.Forghieri@think3.com>
David Wheeler <david@kineticode.com>
Gary Benson <gbenson@redhat.com>
Geoffrey Young <geoff@modperlcookbook.org>
Ken Williams <ken@forum.swarthmore.edu>
Randy Kobes <randy@theoryx5.uwinipeg.ca>
Rick Myers <rik@sumthin.nu>
Stas Bekman <stas@stason.org>
Steve Hay <steve.hay@uk.radan.com>
Steve Piner <stevep@marketview.co.nz>
Tatsuhiko Miyagawa <miyagawa@edge.co.jp>

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This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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License: Haines
This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3 of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs
James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
  ImapMenu {none, formatted, semiformatted, unformatted}
  ImapDefault {error, nocontent, referer, menu, URL}
  ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
  Old: directive URL [x,y ...]
  New: directive URL "Menu text" [x,y ...]
or: directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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1.2845 argparse 1.4.0

1.2845.1 Available under 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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1.2846 mtools 4.0.18 2ubuntu1

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========

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1.2852 go-runtime 1.14.4

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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannaona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Ejdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aeciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afafanesev Stanislav <shpprogger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed Wahed <oneofone@gmail.com>
Ahmet Alp Balkan <ahmetb@google.com>
Ahmet Soormally <ahmet@mangomm.co.uk>
Ahmy Yulrizka <yulrizka@gmail.com>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Lourier <aml@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@google.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandreviau.net>
Alexandru Mooi <brtznr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalxand@google.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Naidonov <alexey.naidonov@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexeypalazhchenko@gmail.com>
Alexis Hildebrandt <surryhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@google.com>
Ali Rizvi-Santiago <arizvisa@gmail.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Allan Simon <allan.simon@supinfo.com>
Allen Li <ayatane@google.com>
Alok Menghrajani <alok.menghrajani@gmail.com>
Aman Gupta <aman@tm1.net>
Amir Mohammad Saied <amir@gluegadget.com>
Amr Mohammed <merodiro@gmail.com>
Amrut Joshi <amrut.joshi@gmail.com>
An Xiao <hac@zju.edu.cn>
Anand K. Mistry <anand@mistry.ninja>
Anders Pearson <anders@columbia.edu>
Anderson Queiroz <contato@andersonq.eti.br>
Andr Carvalho <asantostc@gmail.com>
Andre Nathan <andrenth@gmail.com>
Eduardo Ramalho <eduardo.ramalho@gmail.com>
Eduardo Villaseor <evillasrmx@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Uggdal <eivind@uggageal.com>
Elbert Flick <eflick@gmail.com>
Eldar Rakhimberdin <ibeono@gmail.com>
Elena Grahovac <elena@grahovac.me>
Eli Bendersky <eliben@google.com>
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Emerson Lin <linyinctor@gmail.com>
Emil Hessman <emil@hessman.se>
Emil Mursalinov <mursalimovemee@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eno Compton <enocom@gmail.com>
Eoghan Sherry <ejsherry@gmail.com>
Eric Biggers <ebiggers@google.com>
Eric Brown <browne@vmware.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@gmail.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rutherford <erutherford@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Erik Aigner <aigner.eric@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <rafanlit@gmail.com>
Erik Staab <estaab@gmail.com>
Erik Westrup <erik.westrup@gmail.com>
Erin Masatsugu <erin.masatsugu@gmail.com>
Ernest Chiang <ernest.chiang@htc.com>
Erwin Oegema <blablaechthema@hotmail.com>
Esco Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@gmail.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <euank@euank.com>
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>
Gianguido Sora` <g.sora4@gmail.com>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
GitHub User @andig (184815) <cpuidle@gmx.de>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.ut8@gmail.com>
GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <aditza8@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cch123 (384546) <buaa.cch@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @DQNEO (188741) <dqeoo@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @frenknie (6499251) <mail@rhab.de>
GitHub User @hengwu0 (4129744) <41297446+hengwu0@users.noreply.github.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jiminiaoluo (39730824) <jiminiaoluo@icloud.com>
GitHub User @jopbrown (6345470) <msshane2008@gmail.com>
GitHub User @kazyshr (30496953) <kazyshr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micncnicm (21333876) <micncnicm@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @OlgaVlPetrova (44112727) <OVPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saitarunredddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @shogom-a (9860598) <Choroma194@gmail.com>
GitHub User @skaneshira (7888591) <sho19921005@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
Kevin Gillette <extemporalgenome@gmail.com>
Kevin Kirsche <kev.kirsche@gmail.com>
Kevin Klues <klueska@gmail.com> <klueska@google.com>
Kevin Malachowski <chowski@gmail.com>
Kevin Ruffin <kruffin@gmail.com>
Kevin Vu <kevin.m.vu@gmail.com>
Kevin Zita <bleedgreenandgold@gmail.com>
Kieran Colford <kieran@kcolford.com>
Kim Shrier <kshrier@racktopsystems.com>
Kim Yongbin <kybinz@gmail.com>
Kir Kolyshkin <kolyshkin@gmail.com>
Kirill Motkov <Motkov.Kirill@gmail.com>
Kirill Smelkov <kirk@nexedi.com>
Kirill Tatchihin <kirabsuir@gmail.com>
Kirk Han <kirk91.han@gmail.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
Klaus Post <klauspost@gmail.com>
Kodie Goodwin <kodiegoodwin@gmail.com>
Koichi Shiraiishi <zchee.io@gmail.com>
Koki Ide <niconegoto@yahoo.co.jp>
Koki Tomoshige <tomocy.dev@gmail.com>
Komu Wairagu <komuw05@gmail.com>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Koya IWAMURA <kiwamura0314@gmail.com>
Kris Kwiatkowski <kris@cloudflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@google.com>
Kristopher Watts <traetox@gmail.com>
Kshitij Saraogi <kshitij.saraogi@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrylo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lannm@google.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegemann <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <lrjr@google.com>
Leon Klingele <git@leonklingele.de>
Leonardo Comelli <leonardo.comelli@gmail.com>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Liz Rice <liz@lizrice.com>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenz Brun <lorenz@brun.one>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <ruugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@google.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukewb.com>
Luke Young <bored-engineer@users.noreply.github.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <miki42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.ley.org>
Mike Danese <mikedanese@google.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.roset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msoolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@google.com>
Mikhail Fesenko <proggga@gmail.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikio.hara@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <nikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mikisabate@gmail.com>
Mirko Hansen <baaazen@gmail.com>
Miroslav Genov <ngenov@gmail.com>
Misty De Meo <mistydemeo@gmail.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajo36@gmail.com>
Mohit Verma <vmohit.93@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <mkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moritz Fain <moritz@fain.io>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevds@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammed Uluyol <uluyol0@gmail.com>
Muir Manders <muir@mnrs.rs>
Mura Li <mura_li@castech.com.tw>
Mykhailo Lesyk <mikhail@lesyk.org>
Nan Deng <monnand@gmail.com>
Nao Yonashiro <owan.orisano@gmail.com>
Naoki Kanatani <k12naoki@gmail.com>
Nate Wilkinson <nathanwilk7@gmail.com>
Nathan Cantelmo <n.cantelmo@gmail.com>
Nathan Caza <mastercactapus@gmail.com>
Nathan Dias <nathan.dias@orijtech.com>
Nathan Humphreys <nkhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate Finch@gmail.com>
Nathan VanBenschoten <nvanbenschoten@gmail.com>
Nathan Youngman <git@nathany.com>
Nathan(yinan) Hu <nathanhu@gmail.com>
Nathaniel Cook <nvcook42@gmail.com>
Naveen Kumar Sangi <naveenkumarsangi@protonmail.com>
Neelesh Chandola <neelesh.e98@gmail.com>
Neil Lyons <nwjlyons@googlemail.com>
Neuman Vong <neuman.vong@gmail.com>
Neven Sajko <nsajko@gmail.com>
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>
Niall Sheridan <nsheridan@gmail.com>
Nic Day <nic.day@me.com>
Nicholas Katsaros <nick@nickkatsaros.com>
Nicholas Maniscalco <nicholas@maniscalco.com>
Nicholas Ng <nickng@nickng.io>
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Nick Anthony <Liberatys@outlook.com>
Nick Cooper <nmvc@gmail.com>
Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com>
Nick Harper <nharper@gmail.com>
Nick Kubala <nkubala@gmail.com>
Nick Leli <nicholasleli@gmail.com>
Nick Miyake <nmiyake@users.noreply.github.com>
Nick Patavalis <nick.patavalis@gmail.com>
Nick Petroni <npetroni@cs.umd.edu>
Nick Robinson <nrobinson13@gmail.com>
Nick Smolin <nick27surgut@gmail.com>
Nicolas BRULEZ <n.brulez@gmail.com>
Nicolas Kaiser <nikai@nikai.net>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>
Niek Sanders <niek.sanders@gmail.com>
Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nik Nyby <nnyby@columbia.edu>
Nikhil Benesch <nikhil.benesch@gmail.com>
Peter Gonda <pgonda@google.com>
Peter Hoyes <pahoyes@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@gmail.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Pter Surnyi <speter.gol@gmail.com>
Pter Szab <pts@gmail.com>
Pter Szilgyi <peterke@gmail.com>
Peter Teichman <pteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwill3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petr Jedin <petr.jediny@gmail.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Brøgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephan <phst@google.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellowpiers.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekanov Maxim <kishtatix@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Agrawal <prashant.a.vjti@gmail.com>
Prashant Varanasi <prashant@prashantv.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Pure White <wu.purewhite@gmail.com>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <silsh1022@gmail.com>
Quan Tran <qeed.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiko Tsujikawa <tatsuhiko.t@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee Charoenpitiyakij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@google.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@google.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@google.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Symborski <thomas.symborski@gmail.com>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tianji Wu <the729@gmail.com>
Tianon Gravi <admwiggin@gmail.com>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>
Tim Henderson <tim.tadh@gmail.com>
Tim Hockin <thockin@google.com>
Tim Swast <swast@google.com>
Tim Wright <tenortim@gmail.com>
Tim Xu <xiaoxtueii@gmail.com>
Timo Savola <timosavola@gmail.com>
Timo Truysts <alkaloid.btx@gmail.com>
Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@google.com>
Tobias Assarsson <tobias.assarsson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>
Tobias Klauser <t klauser@distanz.ch>
Toby Burress <kurin@google.com>
Todd Kulesza <tkulesza@google.com>
Todd Neal <todd@tmeal.org>
Todd Wang <toddwang@gmail.com>
Tom Anthony <git@tomanthony.co.uk>
Tom Bergan <tombergan@google.com>
Tom Heng <zhm20070928@gmail.com>
Tom Lanyon <tomlanyon@google.com>
Tom Levy <tomlevy93@gmail.com>
Tom Limoncelli <tal@whatexit.org>
Tom Linford <t omlinford@gmail.com>
Tom Payne <twpayne@gmail.com>
Tom Szymanski <tgs@google.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tomas Dabasinskas <tomas@dabasinskas.net>
Tommy Schaefer <tommy.schaefer@tecom.com>
Tomohiro Kusumoto <zabio1192@gmail.com>
Tomoya Ishizaki <zaq1tomo@gmail.com>
Tonis Tiigi <tonistiigi@gmail.com>
Tony Reix <tony.reix@bull.net>
Tony Walker <walkert.uk@gmail.com>
Tooru Takahashi <tooru.takahashi134@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshihiro Shiino <shiino.toshihiro@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <tamini01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fn.fc>
Troels Thomsen <troels@thomsen.io>
Trung Nguyen <trung.n.k@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tudgual Saunier <tudgual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuo@gmail.com>
Tyler Bui-Palsulich <tpalsulich@google.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <tt treat31@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
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Names should be added to this file as:
Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spierrmar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
Andrew Hunter <andrewhhunter@gmail.com>

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1.2854 ci-info 2.0.0

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1.2855 logrus 1.6.0

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1.2856 python-ldap 3.0.0

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1.2858 libwww-robotrules-perl 6.01-1
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NAME
WWW::RobotRules - database of robots.txt-derived permissions

SYNOPSIS
use WWW::RobotRules;
my $rules = WWW::RobotRules->new('MOMspider/1.0');

use LWP::Simple qw(get);

{
    my $url = "http://some.place/robots.txt";
    my $robots_txt = get $url;
    $rules->parse($url, $robots_txt) if defined $robots_txt;
}

{
    my $url = "http://some.other.place/robots.txt";
    my $robots_txt = get $url;
    $rules->parse($url, $robots_txt) if defined $robots_txt;
}

# Now we can check if a URL is valid for those servers
# whose "robots.txt" files we've gotten and parsed:
if($rules->allowed($url)) {
    $c = get $url;
    ...
}

DESCRIPTION
This module parses /robots.txt files as specified in "A Standard for Robot Exclusion", at <http://www.robotstxt.org/wc/norobots.html>

Webmasters can use the /robots.txt file to forbid conforming robots from accessing parts of their web site.

The parsed files are kept in a WWW::RobotRules object, and this object provides methods to check if access to a given URL is prohibited. The same WWW::RobotRules object can be used for one or more parsed /robots.txt files on any number of hosts.

The following methods are provided:

$rules = WWW::RobotRules->new($robot_name)
   This is the constructor for WWW::RobotRules objects. The first argument given to new() is the name of the robot.

$rules->parse($robot_txt_url, $content, $fresh_until)
   The parse() method takes as arguments the URL that was used to retrieve the /robots.txt file, and the contents of the file.

$rules->allowed($uri)
   Returns TRUE if this robot is allowed to retrieve this URL.

$rules->agent([$name])
   Get/set the agent name. NOTE: Changing the agent name will clear the robots.txt rules and expire times out of the cache.

ROBOTS.TXT
The format and semantics of the "/robots.txt" file are as follows (this is an edited abstract of <http://www.robotstxt.org/wc/norobots.html>):

The file consists of one or more records separated by one or more blank lines. Each record contains lines of the form

   <field-name>: <value>

The field name is case insensitive. Text after the '#' character on a line is ignored during parsing. This is used for comments. The following <field-names> can be used:

User-Agent
   The value of this field is the name of the robot the record is describing access policy for. If more than one *User-Agent* field is present the record describes an identical access policy for more than one robot. At least one field needs to be present per record. If the value is '*', the record describes the default access policy for any robot that has not matched any of the other records.
The *User-Agent* fields must occur before the *Disallow* fields. If a record contains a *User-Agent* field after a *Disallow* field, that constitutes a malformed record. This parser will assume that a blank line should have been placed before that *User-Agent* field, and will break the record into two. All the fields before the *User-Agent* field will constitute a record, and the *User-Agent* field will be the first field in a new record.

Disallow
The value of this field specifies a partial URL that is not to be visited. This can be a full path, or a partial path; any URL that starts with this value will not be retrieved.

Unrecognized records are ignored.

ROBOTS.TXT EXAMPLES
The following example "robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/" or "/tmp/":

User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space
Disallow: /tmp/ # these will soon disappear

This example "robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/", except the robot called "cybermapper":

User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space

# Cybermapper knows where to go.
User-agent: cybermapper
Disallow:

This example indicates that no robots should visit this site further:

# go away
User-agent: *
Disallow: /

This is an example of a malformed robots.txt file.

# robots.txt for ancientcastle.example.com
# I've locked myself away.
User-agent: *
Disallow: /

# The castle is your home now, so you can go anywhere you like.
User-agent: Belle
Disallow: /west-wing/ # except the west wing!
# It's good to be the Prince...
User-agent: Beast
Disallow:

This file is missing the required blank lines between records. However, the intention is clear.

SEE ALSO
LWP::RobotUA, WWW::RobotRules::AnyDBM_File

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# Bender: "Well, I don't have anything else planned for today. Let's get drunk!"

=head1 NAME
WWW::RobotRules - database of robots.txt-derived permissions

=head1 SYNOPSIS
use WWW::RobotRules;
my $rules = WWW::RobotRules->new('MOMspider/1.0');

use LWP::Simple qw(get);

{  
  my $url = "http://some.place/robots.txt";
  my $robots_txt = get $url;
  $rules->parse($url, $robots_txt) if defined $robots_txt;
}

{  
  my $url = "http://some.other.place/robots.txt";
  my $robots_txt = get $url;
  $rules->parse($url, $robots_txt) if defined $robots_txt;
}
# Now we can check if a URL is valid for those servers
# whose "robots.txt" files we've gotten and parsed:
if($rules->allowed($url)) {
    $c = get $url;
    ...
}

=head1 DESCRIPTION

This module parses F</robots.txt> files as specified in
"A Standard for Robot Exclusion", at
<http://www.robotstxt.org/wc/norobots.html>
Webmasters can use the F</robots.txt> file to forbid conforming
robots from accessing parts of their web site.

The parsed files are kept in a WWW::RobotRules object, and this object
provides methods to check if access to a given URL is prohibited. The
same WWW::RobotRules object can be used for one or more parsed
F</robots.txt> files on any number of hosts.

The following methods are provided:

=over 4

=item $rules = WWW::RobotRules->new($robot_name)

This is the constructor for WWW::RobotRules objects. The first
argument given to new() is the name of the robot.

=item $rules->parse($robot_txt_url, $content, $fresh_until)

The parse() method takes as arguments the URL that was used to
retrieve the F</robots.txt> file, and the contents of the file.

=item $rules->allowed($uri)

Returns TRUE if this robot is allowed to retrieve this URL.

=item $rules->agent([$name])

Get/set the agent name. NOTE: Changing the agent name will clear the robots.txt
rules and expire times out of the cache.

=back

=head1 ROBOTS.TXT
The format and semantics of the "/robots.txt" file are as follows
(this is an edited abstract of
<http://www.robotstxt.org/wc/norobots.html>):

The file consists of one or more records separated by one or more
blank lines. Each record contains lines of the form

<field-name>: <value>

The field name is case insensitive. Text after the ' #' character on a
line is ignored during parsing. This is used for comments. The
following <field-names> can be used:

=over 3

=item User-Agent

The value of this field is the name of the robot the record is
describing access policy for. If more than one I<User-Agent> field is
present the record describes an identical access policy for more than
one robot. At least one field needs to be present per record. If the
value is " *", the record describes the default access policy for any
robot that has not not matched any of the other records.

The I<User-Agent> fields must occur before the I<Disallow> fields. If a
record contains a I<User-Agent> field after a I<Disallow> field, that
constitutes a malformed record. This parser will assume that a blank
line should have been placed before that I<User-Agent> field, and will
break the record into two. All the fields before the I<User-Agent> field
will constitute a record, and the I<User-Agent> field will be the first
field in a new record.

=item Disallow

The value of this field specifies a partial URL that is not to be
visited. This can be a full path, or a partial path; any URL that
starts with this value will not be retrieved

=back

Unrecognized records are ignored.

=head1 ROBOTS.TXT EXAMPLES

The following example "/robots.txt" file specifies that no robots
should visit any URL starting with "/cyberworld/map/" or "/tmp/":

User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space
Disallow: /tmp/ # these will soon disappear

This example "/robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/", except the robot called "cybermapper":

User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space

# Cybermapper knows where to go.
User-agent: cybermapper
Disallow:

This example indicates that no robots should visit this site further:

# go away
User-agent: *
Disallow: /

This is an example of a malformed robots.txt file.

# robots.txt for ancientcastle.example.com
# I've locked myself away.
User-agent: *
Disallow: /
# The castle is your home now, so you can go anywhere you like.
User-agent: Belle
Disallow: /west-wing/ # except the west wing!
# It's good to be the Prince...
User-agent: Beast
Disallow:

This file is missing the required blank lines between records.
However, the intention is clear.

=head1 SEE ALSO

L<LWP::RobotUA>, L<WWW::RobotRules::AnyDBM_File>

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1.2859 ptyprocess 0.5.2 1

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Garrick Evans <garrick@google.com>
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<th>Email</th>
</tr>
</thead>
<tbody>
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<td>Samuel A. Falvo II</td>
<td><a href="mailto:sam.falvo@rackspace.com">sam.falvo@rackspace.com</a></td>
</tr>
<tr>
<td>Glen Campbell</td>
<td><a href="mailto:glen.campbell@rackspace.com">glen.campbell@rackspace.com</a></td>
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<tr>
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<td><a href="mailto:jesse.noller@rackspace.com">jesse.noller@rackspace.com</a></td>
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<tr>
<td>Joe Topjian</td>
<td><a href="mailto:joe@topjian.net">joe@topjian.net</a></td>
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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]`)
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
t.Errorf("Licenses.List returned error: %v", err) 
}

want := &License{License{
  Key: String("mit"),
  Name: String("MIT"),
  URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}

func TestLicensesService_Get(t *testing.T) {
  setup()
  defer teardown()

  mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprint(w, `("key":"mit","name":"MIT")`)  
  })

  license, _, err := client.Licenses.Get("mit")
  if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
  }
  want := &License{Key: String("mit"), Name: String("MIT")}
  if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
  }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
  _, _, err := client.Licenses.Get("%")
  testURLParseError(t, err)
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.

type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key *string `json:"key,omitempty"
    Name *string `json:"name,omitempty"
    URL  *string `json:"url",omitempty`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty`
    Description    *string   `json:"description",omitempty`
    Category       *string   `json:"category",omitempty`
    Implementation *string   `json:"implementation",omitempty`
    Required       *[]string `json:"required",omitempty`
    Permitted      *[]string `json:"permitted",omitempty`
    Forbidden      *[]string `json:"forbidden",omitempty`
    Body           *string   `json:"body",omitempty`
}

func (l License) String() string {

return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

   licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }

    return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)
    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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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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1.2887 python-prometheus-client 0.1.1-1

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.2890 hibernate-validator 5.4.3.Final

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java

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*/

/**
* Retrieves constraint related meta data for the parameters of the given executable.
* @param executable The executable of interest.
* @return A list with parameter meta data for the given executable.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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 */

/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 *
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a> compatible engine can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
 * [@link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
 * will be used as parameter names.
 *
 * The following listing shows an example using the JavaScript engine which
 * comes with the JDK:
 *
   [@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
   public void createEvent(Date start, Date end) { ... }
 *
 * Can be specified on any method or constructor.
 *
 * @author Gunnar Morling
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraints/ParameterScriptAssert.java

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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/path/NodeImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/BeginState.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/metadata(descriptor/CrossParameterDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/cfg/context/PropertyTarget.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/util/InterpolationHelper.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfLong.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/cfg/defs/DecimalMinDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/valuehandling/package-info.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/pl/PolishNumberValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/cfg/GenericConstraintDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate-validator/internal/metadata/core/ConstraintHelper.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate-validator/internal/constraintvalidators/hv/pl/REGONValidator.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate-validator/internal/cfg/context/PropertyConstraintMappingContextImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernatevalidator/validator/constraints/Mod10Check.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate-validator/internal/cfg/context/MethodConstraintMappingContextImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate-validator/internal/constraintvalidators/bv/DecimalMaxValidatorForNumber.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate-validator/validator/constraints/NotEmpty.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate-validator/validator/crypto/Validatable.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate-validator/validator/constraints/pl/PESEL.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate-validator/validator/internal/metadata/facets/Validatable.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate-validator/validator/DefaultParameterNameProvider.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate-validator/validator/internal/engine/DefaultParameterNameProvider.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate-validator/validator/constraints/ModCheck.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/InterpolationTerm.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/cfg/defs/ScriptAssertDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/util/privilegedactions/GetAnnotationParameter.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/cfg/defs/NotBlankDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/InterpolationTermState.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintTree.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/MessageState.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/br/CPFValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/AssertFalseValidator.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate/validator/internal/xml/ConstrainedTypeBuilder.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate/validator/cfg/defs/NotEmptyDef.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate/validator/cfg/defs/MaxDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate/validator/internal/xml/MetaConstraintBuilder.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate/validator/cfg/context/GroupConversionTargetContextImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate/validator/internal/context/ConstraintDefinitionContext.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate/validator/internal/metadata/descriptor/PropertyDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate/validator/internal/metadata/descriptor/ElementDescriptorImpl.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/rule/OverridingMethodMustNotAlterParameterConstraints.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/cfg/context/Cascadable.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/cfg/context/ReturnValueTarget.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/messages/HibernateMessageInterpolatorContext.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/messages/PropertyMetaData.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/messages/CollectionOfObjectsToStringFormatter.java

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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/internal/constraintvalidators/hv/pl/NIPValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/internal/engine/messageinterpolation/FormatterWrapper.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/cfg/context/PropertyConstraintMappingContext.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/cfg/context/ConstraintMappingTarget.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/cfg/context/MethodConstraintMappingContext.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/cfg/context/CrossParameterTarget.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/cfg/defs/DecimalMaxDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/cfg/defs/URLDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/internal/util/scriptengine/ScriptEvaluator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernatevalidator/internal/xml/ClassLoader.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/internal/enginetime/DefaultTimeProvider.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/internal/enginetime/DefaultTimeProvider.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/internal/enginetime/DefaultTimeProvider.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/internal/enginetime/DefaultTimeProvider.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate-validator/internal/enginetime/DefaultTimeProvider.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/metadata/core/package.html
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/config/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/definition/package.html
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1.2891 **libopenipmi0 2.0.22-1.1ubuntu2.1**

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1.2893 valid-url 1.0.9

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1.2897 prometheus-client 1.2.1

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1.2906 esprima 4.0.1

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1.2907 opencensus 0.22.5

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1.2908 gopsutil 0.0.0-20190323131628-2cbc9195c892

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 */

/*
 * $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
 */

package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
public class Version
 {

 /**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * 
 * Futurework: have this read version info from jar manifest.
 * 
 * @return String denoting our current version
 */
 public static String getVersion()
 {
  return getProduct()+" "+getImplementationLanguage()+" "+getMajorVersionNum()+"."+getReleaseVersionNum()+"."
  +( (getDevelopmentVersionNum() > 0) ?
     ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }

 /**
 * Print the processor version to the command line.
 * 
 * @param argv command line arguments, unused.
 */
 public static void main(String argv[])
 {
  System.out.println(getVersion());
 }

 /**
 * Name of product: Xalan.
 */
 public static String getProduct()
 {
  return "Xalan";
 }

 /**
 * Implementation Language: Java.
 */
 public static String getImplementationLanguage()
 {
  return "Java";
 }
/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop

of a new release.

Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.

Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.

```java
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

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 */
/**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
 */

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package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */
public final class Version {

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * 
 * Futurework: have this read version info from jar manifest.
 * 
 * @return String denoting our current version
 */
public static String getVersion() {
}

/**
 * Print the processor version to the command line.
 * 
 * @param argv command line arguments, unused.
 */
public static void main(String argv[]) {
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. ‘n’ represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
* drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/

public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */

public static int getDevelopmentVersionNum()
{
    try {
        if ((new String(@version.DEVELOPER@)).length() == 0)
            return 0;
        else
            return Integer.parseInt(@version.DEVELOPER@);
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src

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*/

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
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*/

// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java
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*/

// Proprietary
/** The 'document-location()' id (Proprietary). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Entities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_html.properties
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*/

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

parser code {:
/*
* Used by function calls with no args.
*/
static public final Vector EmptyArgs = new Vector(0);

/*
* Reference to non-existing variable.
*/
static public final VariableRef DummyVarRef = null;

/*
* Reference to the Parser class.
*/
private Parser _parser;
private XSLTC _xslt;

/*
* String representation of the expression being parsed.
*/
private String _expression;

/*
* Line number where this expression/pattern was declared.
*/
private int _lineNumber = 0;

/*
* Reference to the symbol table.
*/
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xslt = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}
public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 * /
 public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;
    if (test == null) {  // "*
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                        (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    return new StepPattern(axis, nodeType, predicates);
    } else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();
        return new StepPattern(axis, nodeType, predicates);
    }
    else {
        QName name = (QName)test;
        boolean setPriority = false;
if (axis == Axis.NAMESPACE) {
   .nodeType = (name.toString().equals("*")) ? -1
        : _xsltc.registerNamespacePrefix(name);
} else {
    final String uri = name.getNamespace();
    final String local = name.getLocalPart();
    final QName namespace_uri =
        _parser.getQNameIgnoreDefaultNs("namespace-uri");

    // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
    if (uri != null && (local.equals("*") || local.equals("@*"))) {
        if (predicates == null) {
            predicates = new Vector(2);
            // Priority is set by hand if no other predicates exist
            setPriority = (predicates.size() == 0);
            predicates.add(
                new Predicate(
                    new EqualityExpr(Operators.EQ,
                        new NamespaceUriCall(namespace_uri),
                        new LiteralExpr(uri))));
        }
    }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);
    predicates.add(
        new Predicate(
            new EqualityExpr(Operators.EQ,
                new NamespaceUriCall(namespace_uri),
                new LiteralExpr(uri))));
}

if (local.equals("*")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
        : NodeTest.ELEMENT;
} else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
} else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
        : _xsltc.registerElement(name);
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }

    return result;
public int findNodeType(int axis, Object test) {
    if (test == null) {  // *
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    } else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*")) ? -1 :
                _xsltc.registerNamespacePrefix(name);
        }

        if (name.getNamespace() == null) {
            final String local = name.getLocalPart();

            if (local.equals("*")) {
                return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                    NodeTest.ELEMENT;
            } else if (local.equals("@*")) {
                return NodeTest.ATTRIBUTE;
            }
        }

        return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) :
            _xsltc.registerElement(name);
    }
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external   Set to <tt>true</tt> if this expression is
 *                   compiled in a separate module.
 *
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
        _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    } else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        // code
    } else {
        // code
    }
}
final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
return new ParentLocationPath(newrlp, plp.getStep);
}
else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep");
    return rlp;
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;
non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;
non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
          [: RESULT = pattern: :]
          |
          | EXPRESSION Expr:expr
          | [: RESULT = expr: :];

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
          [: RESULT = lpp: :]
          |
          | LocationPathPattern:lpp VBAR Pattern:p
          [: RESULT = new AlternativePattern(lpp, p); :];

LocationPathPattern ::= SLASH
                      [: RESULT = new AbsolutePathPattern(null); :]
                      |
                      | SLASH RelativePathPattern:rpp
                      [: RESULT = new AbsolutePathPattern(rpp); :]
IdKeyPattern::= ID LPAREN Literal:l RPAREN
   {: RESULT = new IdPattern(l);
     parser.setHasIdCall(true);
   :}

Key LPAREN Literal:l1 COMMA Literal:l2 RPAREN
   {: RESULT = new KeyPattern(l1, l2); :}

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
   {: RESULT = new ProcessingInstructionPattern(l); :}

RelativePathPattern ::= StepPattern:sp
   {: RESULT = sp; :}

StepPattern::= NodeTestPattern:nt
   {:
     RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
   :}

NodeTestPattern:nt Predicates:pp
   {:
     RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
   :}

ProcessingInstructionPattern::= PIPPARAM LPAREN Literal:l RPAREN
   {: RESULT = new ProcessingInstructionPattern(l); :}
| ProcessingInstructionPattern:pip Predicates:pp  
| : RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); : |

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt  
| : RESULT = parser.createStepPattern(axis.intValue(), nt, null); : |

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt Predicates:pp  
| : RESULT = parser.createStepPattern(axis.intValue(), nt, pp); : |

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip  
| : RESULT = pip; // TODO: report error if axis is attribute |

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip  
| Predicates:pp  
| : // TODO: report error if axis is attribute  
| RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); |

NodeTestPattern ::= NameTestPattern:nt  
| : RESULT = nt; : |

| NODE  
| : RESULT = new Integer(NodeTest.ANODE); : |

| TEXT  
| : RESULT = new Integer(NodeTest.TEXT); : |

| COMMENT  
| : RESULT = new Integer(NodeTest.COMMENT); : |

| PI  
| : RESULT = new Integer(NodeTest.PI); : |

NameTestPattern ::= STAR  
| : RESULT = null; : |

| QName:qn  
| : RESULT = qn; : |

ChildOrAttributeAxisSpecifier ::= ATSIGN
Predicates ::= Predicate:p

{: RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD DCOLON
{: RESULT = new Integer(Axis.CHILD); :}

| ATTRIBUTE DCOLON
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p

{: Vector temp = new Vector(); temp.addElement(p); RESULT = temp; :}

| Predicate:p Predicates:pp
{: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK

{: RESULT = new Predicate(e); :};

/* --------------------------- Expressions ------------------------------ */

Expr ::= OrExpr:ex

{: RESULT = ex; :}

OrExpr ::= AndExpr:ae

{: RESULT = ae; :}

| OrExpr:oe OR AndExpr:ae
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e

{: RESULT = e; :}

| AndExpr:ae AND EqualityExpr:ee
{: RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};

EqualityExpr ::= RelationalExpr:re

{: RESULT = re; :}

| EqualityExpr:ee EQ RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

| EqualityExpr:ee NE RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};
RelationalExpr ::= AdditiveExpr:ae
{ RESULT = ae; :} | RelationalExpr:re LT AdditiveExpr:ae
{ RESULT = new RelationalExpr(Operators.LT, re, ae); :} | RelationalExpr:re GT AdditiveExpr:ae
{ RESULT = new RelationalExpr(Operators.GT, re, ae); :} | RelationalExpr:re LE AdditiveExpr:ae
{ RESULT = new RelationalExpr(Operators.LE, re, ae); :} | RelationalExpr:re GE AdditiveExpr:ae
{ RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me
{ RESULT = me; :} | AdditiveExpr:ae PLUS MultiplicativeExpr:me
{ RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); :} | AdditiveExpr:ae MINUS MultiplicativeExpr:me
{ RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue
{ RESULT = ue; :} | MultiplicativeExpr:me MULT UnaryExpr:ue
{ RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :} | MultiplicativeExpr:me DIV UnaryExpr:ue
{ RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :} | MultiplicativeExpr:me MOD UnaryExpr:ue
{ RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
{ RESULT = ue; :} | MINUS UnaryExpr:ue
{ RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
{ RESULT = pe; :} | PathExpr:pe VBAR UnionExpr:rest
{ RESULT = new UnionPathExpr(pe, rest); :};
PathExpr ::= LocationPath:lp
  { : RESULT = lp; : }

  | FilterExpr:exp
  { : RESULT = exp; : }

  | FilterExpr:exp SLASH RelativeLocationPath:rlp
  { : RESULT = new FilterParentPath(exp, rlp); : }

  | FilterExpr:exp DSLASH RelativeLocationPath:rlp
  { :
    //
    // Expand '// into '/descendant-or-self::node()' or
    // into /descendant-or-self::*
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
    {
      nodeType = DTM.ELEMENT_NODE;
    }
    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    FilterParentPath fpp = new FilterParentPath(exp, step);
    fpp = new FilterParentPath(fpp, rlp);
    if (exp instanceof KeyCall == false) {
      fpp.setDescendantAxis();
    }
    RESULT = fpp;
  ;};

LocationPath ::= RelativeLocationPath:rlp
  { : RESULT = rlp; : }

  | AbsoluteLocationPath:alp
  { : RESULT = alp; : };

RelativeLocationPath ::= Step:step
  { : RESULT = step; : }

  | RelativeLocationPath:rlp SLASH Step:step
  { :
    if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
      RESULT = step;       // Remove '.' from the middle
    }
    else if (((Step) step).isAbbreviatedDot()) {
      RESULT = rlp;        // Remove 'l.' from the end
    }
else {
    RESULT =
    new ParentLocationPath((RelativeLocationPath) rlp, step);
}
}

| AbbreviatedRelativeLocationPath:arlp
| RESULT = arlp; |

AbsoluteLocationPath ::= SLASH
| RESULT = new AbsoluteLocationPath(); |

| SLASH RelativeLocationPath:rlp
| RESULT = new AbsoluteLocationPath(rlp); |

| AbbreviatedAbsoluteLocationPath:aalp
| RESULT = aalp; |

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
|
final Step right = (Step)step;
final int axis = right.GetAxis();
final int type = right.getNodeType();
final Vector predicates = right.getPredicates();

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {  
   // Compress './/child:E' into 'descendant::E' - if possible
   if (predicates == null) {  
      right.setAxis(Axis.DESCENDANT);  
      if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {  
         RESULT = right;
      }  
   }  
   else {  
      // Expand 'rlp//child::E' into 'rlp/descendant::E'
      RelativeLocationPath left = (RelativeLocationPath)rlp;
      RESULT = new ParentLocationPath(left, right);
   }
}
else {  
   // Expand './/step' -> 'descendant-or-self::*//step'
   if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {  
      Step left = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);
      RESULT = new ParentLocationPath(left, right);
   }  
   else {  
      // Expand 'rlp//step' -> 'rlp/descendant-or-self::*//step'
      RelativeLocationPath left = (RelativeLocationPath)rlp;
      ...
Step mid = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(mid, right);
    RESULT = new ParentLocationPath(left, ppl);
}

else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*//step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF, DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp

    {:
     // Expand '/// into '/descendant-or-self::node()' or
     // into /descendant-or-self::*/
     //
     int nodeType = DOM.NO_TYPE;
     if (rlp instanceof Step &&
         parser.isElementAxis(((Step) rlp).getAxis()))
     {
         nodeType = DTM.ELEMENT_NODE;
     }
     final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
     RESULT = new AbsoluteLocationPath(parser.insertStep(step, (RelativeLocationPath) rlp));
    };

Step ::= NodeTest:ntest
    {:
        if (ntest instanceof Step) {
            RESULT = (Step)ntest;
        }
else {
RESULT = new Step(Axis.CHILD, 
    parser.findNodeType(Axis.CHILD, ntest), 
    null);
}
:}

| NodeTest:ntest Predicates:pp
}{
    if (ntest instanceof Step) {
    Step step = (Step)ntest;
    step.addPredicates(pp);
    RESULT = (Step)ntest;
    }
    else {
    RESULT = new Step(Axis.CHILD, 
        parser.findNodeType(Axis.CHILD, ntest), pp);
    }
:}

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
}{
    RESULT = new Step(axis.intValue(), 
        parser.findNodeType(axis.intValue(), ntest), pp);
:}

| AxisSpecifier:axis NodeTest:ntest
}{
    RESULT = new Step(axis.intValue(), 
        parser.findNodeType(axis.intValue(), ntest), null);
:}

| AbbreviatedStep:abbrev
}{
    RESULT = abbrev; :}

AxisSpecifier ::= AxisName:an DCOLON
}{
    RESULT = an; :}

| ATSIGN
}{
    RESULT = new Integer(Axis.ATTRIBUTE); :}

AxisName ::= ANCESTOR
}{
    RESULT = new Integer(Axis.ANCESTOR); :}

| ANCESTORORSELF
}{
    RESULT = new Integer(Axis.ANCESTORORSELF); :}

| ATTRIBUTE
| CHILD | : RESULT = new Integer(Axis.CHILD); : |
| DESCENDANT | : RESULT = new Integer(Axis.DESCENDANT); : |
| DESCENDANTORSELF | : RESULT = new Integer(Axis.DESCENDANTORSELF); : |
| FOLLOWING | : RESULT = new Integer(Axis.FOLLOWING); : |
| FOLLOWINGSIBLING | : RESULT = new Integer(Axis.FOLLOWINGSIBLING); : |
| NAMESPACE | : RESULT = new Integer(Axis.NAMESPACE); : |
| PARENT | : RESULT = new Integer(Axis.PARENT); : |
| PRECEDING | : RESULT = new Integer(Axis.PRECEDING); : |
| PRECEDINGSIBLING | : RESULT = new Integer(Axis.PRECEDINGSIBLING); : |
| SELF | : RESULT = new Integer(Axis.SELF); ; |

AbbreviatedStep ::= DOT
   : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : |

   DDOT
   : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : ;:

FilterExpr ::= PrimaryExpr:primary
   : RESULT = primary: : |

| PrimaryExpr:primary Predicates:pp
   : RESULT = new FilterExpr(primary, pp); : |

PrimaryExpr ::= VariableReference:vr
   : RESULT = vr: : |

   LPAREN Expr:ex RPAREN
/* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);

| INT:num |
{: long value = num.longValue();
  if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
    RESULT = new RealExpr(value);
  } else {
    if (num.doubleValue() == -0)
      RESULT = new RealExpr(num.doubleValue());
    else if (num.intValue() == 0)
      RESULT = new IntExpr(num.intValue());
    else if (num.doubleValue() == 0.0)
      RESULT = new RealExpr(num.doubleValue());
    else
      RESULT = new IntExpr(num.intValue());
  }
}

| REAL:num |
{: RESULT = new RealExpr(num.doubleValue()); }

| FunctionCall:fc |
{: RESULT = fc; }

VariableReference ::= DOLLAR VariableName:varName
{: // An empty qname prefix for a variable or parameter reference}
// should map to the null namespace and not the default URI.
SyntaxTreeNode node = parser.lookupName(varName);

if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    } else if (node instanceof Param) {
        RESULT = new ParameterRef((Param)node);
    } else {
        RESULT = new UnresolvedRef(varName);
    }
}

if (node == null) {
    RESULT = new UnresolvedRef(varName);
}
);

 FunctionCall ::= FunctionName:fname LPAREN RPAREN

{:
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    } else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
        RESULT = new BooleanExpr(true);
    } else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
        RESULT = new BooleanExpr(false);
    } else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname);
    } else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {

RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

<table>
<thead>
<tr>
<th>FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN</th>
</tr>
</thead>
<tbody>
<tr>
<td>{</td>
</tr>
<tr>
<td>if (parser.getQNameIgnoreDefaultNs(&quot;concat&quot;).equals(fname))</td>
</tr>
<tr>
<td>RESULT = new ConcatCall(fname, argl);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else if (parser.getQNameIgnoreDefaultNs(&quot;number&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new NumberCall(fname, argl);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else if (parser.getQNameIgnoreDefaultNs(&quot;document&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>parser.setMultiDocument(true);</td>
</tr>
<tr>
<td>RESULT = new DocumentCall(fname, argl);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else if (parser.getQNameIgnoreDefaultNs(&quot;string&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new StringCall(fname, argl);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else if (parser.getQNameIgnoreDefaultNs(&quot;boolean&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new BooleanCall(fname, argl);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else if (parser.getQNameIgnoreDefaultNs(&quot;name&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new NameCall(fname, argl);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else if (parser.getQNameIgnoreDefaultNs(&quot;generate-id&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new GenerateIdCall(fname, argl);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else if (parser.getQNameIgnoreDefaultNs(&quot;not&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new NotCall(fname, argl);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else if (parser.getQNameIgnoreDefaultNs(&quot;format-number&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new FormatNumberCall(fname, argl);</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xslt", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
};

NonemptyArgumentList ::= Argument:arg

| Argument:arg COMMA NonemptyArgumentList:argl
| { argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname

| QName:fname
| { RESULT = fname; :};

VariableName ::= QName:vname

| QName:vname
| { RESULT = vname; :};

Argument ::= Expr:ex

| Expr:ex
| { RESULT = ex; :};

NodeTest ::= NameTest:nt

| NameTest:nt
| { RESULT = nt; :}

| NODE
| { RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
| { RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
| { RESULT = new Integer(NodeTest.COMMENT); :}

| PIPARAM LPAREN Literal:l RPAREN
| { QName name = parser.getQNameIgnoreDefaultNs("name"); Expression exp = new EqualityExpr(Operators.EQ,
new NameCall(name),
    new LiteralExpr(l));
Vector predicates = new Vector();
predicates.addElement(new Predicate(exp));
RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
:}

| PI
{| : RESULT = new Integer(NodeTest.PI); :};

NameTest ::= STAR
{| : RESULT = null; :}

| QName:qn
{| : RESULT = qn; :};

QName ::= QName:qname
{| : RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

| DIV
{| : RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

| MOD
{| : RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

| KEY
{| : RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

| ANCESTOR
{| : RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| ANCESTORORSELF
{| : RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

| ATTRIBUTE
{| : RESULT = parser.getQNameIgnoreDefaultNs("attribute"); :}

| CHILD
{| : RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| DESCENDANT
{| : RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

| DESCENDANTORSELF
{| : RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

| FOLLOWING
{| : RESULT = parser.getQNameIgnoreDefaultNs("following"); :}
<table>
<thead>
<tr>
<th>FOLLOWINGSIBLING</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = parser.getQNameIgnoreDefaultNs(&quot;following-sibling&quot;); :</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NAMESPACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = parser.getQNameIgnoreDefaultNs(&quot;namespace&quot;); :</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PARENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = parser.getQNameIgnoreDefaultNs(&quot;parent&quot;); :</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRECEDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = parser.getQNameIgnoreDefaultNs(&quot;preceding&quot;); :</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRECEDINGSIBLING</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = parser.getQNameIgnoreDefaultNs(&quot;preceding-sibling&quot;); :</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SELF</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = parser.getQNameIgnoreDefaultNs(&quot;self&quot;); :</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = parser.getQNameIgnoreDefaultNs(&quot;id&quot;); :</td>
</tr>
</tbody>
</table>

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

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 */

// is found, then throw a special exception in order to terminate
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
* jar/org/apache/xalan/processor/TransformerFactoryImpl.java
No license file was found, but licenses were detected in source scan.

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* limitations under the License.
*/

/*
*/

/* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
* jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
No license file was found, but licenses were detected in source scan.
package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;

%%
%cup
%cunicode
%cclass XPathLexer
%yyeof

{%
int last;

void initialize() {
    last = -1;
}

static boolean isWhitespace(int c) {
    return (c == ' ' || c == '	' || c == '' || c == '
'  || c == '');
}

/**
* If symbol is not followed by `::` or `(`, then treat it as a
* name instead of an axis or function (Jira-1912).
*/

Symbol disambiguateAxisOrFunction(int ss) throws Exception {
   // Peek in the input buffer without changing the internal state
   int index = yy_buffer_index;

   // Skip whitespace
   while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
      index++;
   }

   // If end of buffer, can't disambiguate :
   if (index >= yy_buffer_read) {
      // Can't disambiguate, so return as symbol
      return new Symbol(ss);
   }

   // Return symbol if next token is `::` or `(`
   return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':') ||
          yy_buffer[index] == '(' ?
           newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
* If symbol is first token or if it follows any of the operators
* listed in http://www.w3.org/TR/xpath#exprlex then treat as a
* name instead of a keyword (Jira-1912).
*/

Symbol disambiguateOperator(int ss) throws Exception {
   switch (last) {
      case -1:    // first token
      case sym.ATSIGN:
      case sym.DCOLON:
      case sym.LPAREN:
      case sym.LBRACK:
      case sym.COMMA:
      case sym.AND:
      case sym.OR:
      case sym.MOD:
      case sym.DIV:
      case sym.MULT:
      case sym.SLASH:
      case sym.DSLASH:
      case sym.VBAR:
      case sym.PLUS:
      case sym.MINUS:
      case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.QNAME, yytext());
}
return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 * /
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.STAR);
    }
    return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}
Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%
%
%eofval{
    return newSymbol(sym.EOF);
}%eofval
%
%yylexthrow{
    Exception
}%yylexthrow

Letter={BaseChar}|{Ideographic}

BaseChar=[u0041-u005A|u0061-u007A|u00C0-u00D6|u00D8-u00F6|u00F8-u00FF|u0100-u0131|u0134-
          u013E|u0141-u0148|u014A-u017E|u0180-u01C3|u01CD|u01F0-u01F4|u01F5-u01FA|u0217-u0250-
          u02A8|u02BB|u02C1|u0386|u0388-u038A|u038C|u038E|u03A1|u03A3|u03CE|u03D0-
          u03D6|u03DA|u03DC|u03DE|u03E0|u03F2|u0401|u040C|u040E|u044F|u0451|u045C|u045E-
          u0481|u0490-u04C4|u04C7|u04C8|u04CA|u04CC|u04D0|u04EB|u04EE|u04F5|u0519|u0556-
          u055F|u0561|u0586|u05D0|u05EA|u05F0|u05F2|u0621|u063A|u0641|u064A|u0671|u06B7|u06BA-
          u06BE|u06CC|u06CE|u06DD|u06D3|u06D5|u06E5|u06E6|u0905|u0939|u093D|u0958|u0961|u0985-
          u098C|u098F|u0990|u0993|u09A8|u09A9|u09B0|u09B2|u09B6|u09B9|u09DC|u09DD|u09DF-
          u09E1|u09F0|u09F1|u0A05|u0A07|u0A0A|u0A0F|u0A10|u0A13|u0A28|u0A2A|u0A30|u0A32|u0A33|u0A35-
          u0A36|u0A38|u0A39|u0A59|u0A5C|u0A5E|u0A72|u0A74|u0A85|u0A8B|u0A8D|u0A8F|u0A91|u0A93-
          u0A98|u0A9A|u0AB0|u0AB2|u0AB3|u0AB5|u0AB9|u0ABD|u0AE0|u0B05|u0B0C|u0B0F|u0B10|u0B13-
          u0B28|u0B2A|u0B30|u0B32|u0B33|u0B36|u0B39|u0B3D|u0B5C|u0B5D|u0B5F|u0B61|u0B85-
          u0B8A|u0B8E|u0B90|u0B92|u0B95|u0B99|u0B9A|u0B9C|u0B9E|u0B9F|u0BA3|u0BA4|u0BA8-
          u0BAA|u0BAE|u0BB5|u0BB7|u0BB9|u0C05|u0C0C|u0C0E|u0C10|u0C12|u0C28|u0C2A|u0C33|u0C35-
          u0C39|u0C60|u0C61|u0C85|u0C88|u0C8C|u0C90|u0C92|u0CA8|u0CA9|u0CB3|u0CB5-
          u0CB9|u0CDE|u0CE0|u0CE1|u0DD5|u0DDC|u0D0E|u0DD7|u0DD9|u0DDB|u0DE6-
          u0D61|u0E01|u0E2E|u0E30|u0E32|u0E33|u0E40|u0E45|u0E81|u0E82|u0E84|u0E87-
          u0E88|u0E8A|u0EBD|u0EA9|u0EA9|u0EA9|u0EA9|u0EA9|u0EA9|u0EA9|u0EAD-
          u0EA9|u0EB0|u0EB2|u0EB3|u0EBD|u0EC0|u0EC4|u0F0|u0F47|u0F49|u0F69|u10A0|u10C5|u10D0-
          u10F6|u1100|u1102|u1103|u1105|u1107|u1109|u110B|u110C|u110E-
          u1112|u113C|u113E|u1140|u1144|u1146|u1150|u1154|u1155|u1159|u115F-
"mod" { return disambiguateOperator(sym.MOD); }
"::" { return newSymbol(sym.DCOLON); }
"." { return newSymbol(sym.COMMA); }
"@" { return newSymbol(sym.ATSIGN); }
"." { return newSymbol(sym.DDOT); }
"[" { return newSymbol(sym.VBAR); }
"$" { return newSymbol(sym.DOLLAR); }
"//" { return newSymbol(sym.DSLSLASH); }
"=" { return newSymbol(sym.EQ); }
"!=" { return newSymbol(sym.NE); }
"<" { return newSymbol(sym.LT); }
">" { return newSymbol(sym.GT); }
"<=" { return newSymbol(sym.LE); }
">=" { return newSymbol(sym.GE); }
"id" { return disambiguateAxisOrFunction(sym.ID); }
"key" { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text"+[\t\n\f]+"()" { return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node"+[\t\n\f]+"()" { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment"+[\t\n\f]+"()" { return newSymbol(sym.COMMENT); }
"processing-instruction()" { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction"+[\t\n\f]+"()" { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self" { return disambiguateAxisOrFunction(sym.SELF); }
"[" { return newSymbol(sym.LBRACK); }
"]" { return newSymbol(sym.RBRACK); }
"(" { return newSymbol(sym.LPAREN); }
")" { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"\"\"]*\" { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
null
/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
*
fixes for defects reported. It maintains compatibility
*
with the release and contains no API changes.
*
When missing, it designates the final and complete
*
development drop for a release.
*/
public static final int MAINTENANCE = @version.MINOR@;
/**
* Development Drop Number.
* Optional identifier designates development drop of
*
a specific release. D01 is the first development drop
*
of a new release.
*
*
Development drops are works in progress towards a
*
compeleted, final release. A specific development drop
*
may not completely implement all aspects of a new
*
feature, which may take several development drops to
*
complete. At the point of the final drop for the
*
release, the D suffix will be omitted.
*
*
Each 'D' drops can contain functional enhancements as
*
well as defect fixes. 'D' drops may not be as stable as
*
the final releases.
*/
public static final int DEVELOPMENT = 0;
/**
* Version String like <CODE>"<B>Xalan</B> <B>Language</B>
* v.r[.dd| <B>D</B>nn]"</CODE>.
* <P>Semantics of the version string are identical to the Xerces project.</P>
*/
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
+VERSION+"."+RELEASE+"."
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
: (""+MAINTENANCE));
}
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sourcesjar/org/apache/xalan/processor/XSLProcessorVersion.src
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Found in path(s):
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  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/domapi/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/operations/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/compiler/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/patterns/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
  * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html

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*/

// Proprietary, built in functions
/** current function string (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
jar/org/apache/xalan/xslt/runtime/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/transformer/NumeratorFormatter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/utils/SerializerMessages_hu.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/runtime/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/operations/Equals.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/Pattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/DOMEnhancedForDTM.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/dom/MatchingIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/functions/FuncNot.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/processor/XSLTAttributeDef.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/utils/StringToStringTableVector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/If.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/SerializerTraceWriter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/utils/res/StringArrayWrapper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/Choose.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/templates/ElemFallback.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/transformer/XalanProperties.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/runtime/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/If.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/ToTextSAXHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/utils/res/XSLTErrorResources_en.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/SerializerTraceWriter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/utils/res/StringArrayWrapper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/Choose.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/templates/ElemFallback.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/transformer/XalanProperties.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/OpCodes.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_by.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplateElement.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/LiteralElement.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/ElemTextLiteral.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_de.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Step.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_pt_BR.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/ErrorMessages_de.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/axes/DescendantIterator.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/xmlstream/ToXMLStream.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/templates/ElemTextSet.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/js/SecuritySupport.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/FilterParentPath.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Sort.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/serialize/functions/FuncLast.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/CeilCall.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/serialize/functions/Function3Args.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/URI.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/xml/XPath.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/RealType.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/DecimalFormatProperties.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/Decima
jar/org/apache/xalan/extensions/ExpressionContext.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FunctionDef1Arg.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/axes/OneStepIterator.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprWalker.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_sv.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/res/XMLErrorResources_pl.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncTranslate.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ValueOf.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Operators.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ParentLocationPath.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/TreeWalker2Result.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/UnparsedEntityUriCall.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/BooleanCall.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstringBefore.java
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* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectVector.java
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1.2912 libxmuu 1.1.2-2

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### 1.2914 async-io 1.32.0
# Async::IO

Async::IO provides builds on [async](https://github.com/socketry/async) and provides asynchronous wrappers for 'IO', 'Socket', and related classes.


## Installation

Add this line to your application's Gemfile:

```ruby
` gem 'async-io'
```

And then execute:

```
$ bundle
```

Or install it yourself as:

```
$ gem install async-io
```

## Usage

Basic echo server (from `spec/async/io/echo_spec.rb`):

```ruby
require 'async/io'

def echo_server(endpoint)
  Async do |task|
    # This is a synchronous block within the current task:
    endpoint.accept do |client|
      # This is an asynchronous block within the current reactor:
      data = client.read
      # This produces out-of-order responses.
      task.sleep(rand * 0.01)
      client.write(data.reverse)
      client.close_write
    end
  end
end
```

```ruby
end

def echo_client(endpoint, data)
  Async do |task|
    endpoint.connect do |peer|
      peer.write(data)
      peer.close_write

      message = peer.read

      puts "Sent #{data}, got response: #{message}"
    end
  end
end
end

Async do
  endpoint = Async::IO::Endpoint.tcp('0.0.0.0', 9000)

  server = echo_server(endpoint)

  5.times.map do |i|
    echo_client(endpoint, "Hello World #{i}")
  end.each(&:wait)

  server.stop
end
```

```ruby
### Timeouts

Timeouts add a temporal limit to the execution of your code. If the IO doesn't respond in time, it will fail. Timeouts are high level concerns and you generally shouldn't use them except at the very highest level of your program.

```ruby
message = task.with_timeout(5) do
  begin
    peer.read
  rescue Async::TimeoutError
    nil # The timeout was triggered.
  end
end
```

Any `yield` operation can cause a timeout to trigger. Non-`async` functions might not timeout because they are outside the scope of `async`.

```ruby
#### Wrapper Timeouts
```
Asynchronous operations may block forever. You can assign a per-wrapper operation timeout duration. All asynchronous operations will be bounded by this timeout.

```ruby
peer.timeout = 1
peer.read # If this takes more than 1 second, Async::TimeoutError will be raised.
```

The benefit of this approach is that it applies to all operations. Typically, this would be configured by the user, and set to something pretty high, e.g. 120 seconds.

### Reading Characters

This example shows how to read one character at a time as the user presses it on the keyboard, and echos it back out as uppercase:

```ruby
require 'async'
require 'async/io/stream'
require 'io/console'

$stdin.raw!
$stdin.echo = false

Async do |task|
  stdin = Async::IO::Stream.new(
    Async::IO::Generic.new($stdin)
  )

  while character = stdin.read(1)
    $stdout.write character.upcase
  end
end
```

### Deferred Buffering

`Async::IO::Stream.new(..., deferred:true)` creates a deferred stream which increases latency slightly, but reduces the number of total packets sent. It does this by combining all calls `Stream#flush` within a single iteration of the reactor. This is typically more useful on the client side, but can also be useful on the server side when individual packets have high latency. It should be preferable to send one 100 byte packet than 10x 10 byte packets.

Servers typically only deal with one request per iteration of the reactor so it's less useful. Clients which make multiple requests can benefit significantly e.g. HTTP/2 clients can merge many requests into a single packet. Because HTTP/2 recommends disabling Nagle's algorithm, this is often beneficial.

## Contributing
1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (`git commit -am 'Add some feature'`)
4. Push to the branch (`git push origin my-new-feature`)
5. Create new Pull Request

## See Also
- [async](https://github.com/socketry/async)  Asynchronous event-driven reactor.
- [async-websocket](https://github.com/socketry/async-websocket)  Asynchronous client and server websockets.
- [async-dns](https://github.com/socketry/async-dns)  Asynchronous DNS resolver and server.
- [async-rspec](https://github.com/socketry/async-rspec)  Shared contexts for running async specs.
- [rubydns](https://github.com/ioquatix/rubydns)  A easy to use Ruby DNS server.

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/AtomicLongMap.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/MoreCollectors.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/graph/UndirectedNetworkConnections.java
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* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
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*/

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/ImmutableBiMapFauxverideShim.java
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jar/com/google/common/graph/package-info.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataInputStream.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashBiMap.java
jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/AbstractIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/CountingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/CountingOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/CountingOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/LittleEndianDataOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/CharStreams.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/io/ByteStreams.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/primitives/AbstractHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/primitives/ImmutableIntArray.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/primitives/ImmutableLongArray.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/ToDoubleRounder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Java8Compatibility.java

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jar/com/google/common/util/concurrent/Internal.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/FarmHashFingerprint64.java
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */

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  jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/cache/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/base/Optional.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect.DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/base/Present.java
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  jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/hash/PrimitiveSink.java
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  jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
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  jar/com/google/common/collection/GeneralRange.java
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  jar/com/google/common/collection/ForwardingSortedMultiset.java
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  jar/com/google/common/collection/SortedIterable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/ForwardingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/Queues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/AbstractSortedMultiset.java
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  jar/com/google/common/hash/HashFunction.java

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 */
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FluentFuture.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/Verify.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

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jar/com/google/common/collection/JdkBackedImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/BaseImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/IndexedImmutableSet.java

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jar/com/google/common/collection/FilteredKeySetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/TransformedListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/FilteredMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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 */
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  jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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  jar/com/google/common/util/concurrent/MoreExecutors.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MoreFiles.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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jar/com/google/common/collection/ImmutableMultiset.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/SingletonImmutableBiMap.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/RegularImmutableBiMap.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/ImmutableBiMap.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/ImmutableSortedSet.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/ImmutableMapValues.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/Collections2.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/ImmutableMapEntrySet.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/ImmutableCollection.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/Table.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/EmptyImmutableListMultimap.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/CollectPreconditions.java

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*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/ImmutableMultimap.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/Platform.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/TreeBasedTable.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/StandardRowSortedTable.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/ImmutableMap.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/Range.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/UnmodifiableIterator.java

*/opt/cola/permissions/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collection/ImmutableMapKeySet.java

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/**
* Holder for web specializations of methods of [ @code Shorts]. Intended to be empty for regular
* version.
*/

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  jar/com/google/common/collect/ImmutableRangeSet.java
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  jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/html/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/commonutil/concurrent/RateLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeToInstanceMap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ClosingFuture.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashing.java

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/*
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 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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 */
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/******
 * Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
 * {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
 * under GWT but with a slightly different signature.
 *
 * We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
 * it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/SuccessorsFunction.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableGraph.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/hash/LongAdder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/cache/LongAdder.java
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  jar/com/google/common/cache/Striped64.java
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  jar/com/google/common/hash/Striped64.java
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  jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/base/CharMatcher.java

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  jar/com/google/common/primitives/Shorts.java
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  jar/com/google/common/primitives/Doubles.java
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  jar/com/google/common/util/concurrent/SequentialExecutor.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractSequentialIterator.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/UnmodifiableListIterator.java
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 */
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}. </b>
 */

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 */
/**
 * Holder for web specializations of methods of [Floats]. Intended to be empty for regular
 * version.
 */

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### 1.2917 metrics-json 4.1.16

1.2917.1 Available under license:

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.json
Build-Jdk-Spec: 11
Bundle-Description: A set of Jackson modules which provide serializers for most Metrics classes.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Jackson Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.json
Bundle-Version: 4.1.16
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.json;uses:="com.codahale.metrics, com.fasterxml.jackson.core, com.fasterxml.jackson.databind";version="4.1.16"
Implementation-Title: Jackson Integration for Metrics
Implementation-Version: 4.1.16
Import-Package: com.codahale.metrics;version="[4.1.5)";com.codahale.me
1.2918 fn-name 1.1.0

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1.2919 prometheus-procfs 0.0.0-20190529155944-65bdadfa96ae

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procf provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Vreixo Formoso <metalpain2002@yahoo.es>,
Mario Danic <mario.danic@gmail.com>,
Vladimir Serbinenko <phcoder@gmail.com>
Thomas Schmitt <scdbackup@gmx.net>
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# first address should be used in the submit logs and
# that the second address should be recognized as the
# same person when interacting with Rietveld.

# Please keep the list sorted.

Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Nick Craig-Wood <nickcw@gmail.com>
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Alex A. Skinner
Andrew Tunell-Jones
Ask Bjørn Hansen
Dave Cheney
Dusty Wilson
Marek Majkowski
Peter van Dijk
Omri Bahumi
Alex Sergeyev

Contributors
============

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samuel A. Falvo II</td>
<td><a href="mailto:sam.falvo@rackspace.com">sam.falvo@rackspace.com</a></td>
</tr>
<tr>
<td>Glen Campbell</td>
<td><a href="mailto:glen.campbell@rackspace.com">glen.campbell@rackspace.com</a></td>
</tr>
<tr>
<td>Jesse Noller</td>
<td><a href="mailto:jesse.noller@rackspace.com">jesse.noller@rackspace.com</a></td>
</tr>
<tr>
<td>Jon Perritt</td>
<td><a href="mailto:jon.perritt@rackspace.com">jon.perritt@rackspace.com</a></td>
</tr>
<tr>
<td>Ash Wilson</td>
<td><a href="mailto:ash.wilson@rackspace.com">ash.wilson@rackspace.com</a></td>
</tr>
<tr>
<td>Jamie Hannaford</td>
<td><a href="mailto:jamie.hannaford@rackspace.com">jamie.hannaford@rackspace.com</a></td>
</tr>
<tr>
<td>Don Schenck</td>
<td><a href="mailto:don.schenck@rackspace.com">don.schenck@rackspace.com</a>&gt;</td>
</tr>
<tr>
<td>Joe Topjian</td>
<td><a href="mailto:joe@topjian.net">joe@topjian.net</a></td>
</tr>
</tbody>
</table>

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package github
import (
"fmt"
"net/http"
"reflect"
"testing"
)
func TestLicensesService_List(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]`)
})
licenses, _, err := client.Licenses.List()
if err != nil {

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t.Errorf("Licenses.List returned error: %v", err)
}

want := []License{License{
    Key: String("mit"),
    Name: String("MIT"),
    URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
    t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `{"key":"mit","name":"MIT"}
    })

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }
    want := &License{Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.

type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"
    Name *string `json:"name,omitempty"
    URL  *string `json:"url,omitempty"
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured,omitempty"
    Description    *string   `json:"description,omitempty"
    Category       *string   `json:"category,omitempty"
    Implementation *string   `json:"implementation,omitempty"
    Required       *[]string  `json:"required,omitempty"
    Permitted      *[]string  `json:"permitted,omitempty"
    Forbidden      *[]string  `json:"forbidden,omitempty"
    Body           *string   `json:"body,omitempty"
}

func (l License) String() string {
    return Stringify(l)
// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
    return nil, resp, err
}
return *licenses, resp, err

// Fetch extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

license := new(License)
resp, err := s.client.Do(req, license)
if err != nil {
    return nil, resp, err
}
return license, resp, err

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1.2935 rsyslog 8.32.0 1ubuntu4
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>>> freebsd-base64-4.8
>>> unicode-5.0

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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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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Although the Lesser General Public License is Less protective of the
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1.2938 dns-root-data 2018013001

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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library”. The executable is therefore covered by this License.
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Otherwise, if the work is a derivative of the Library, you may
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Nigel Tao <nigeltao@golang.org>
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Rodolfo Carvalho <rhcarvalho@gmail.com>
Russ Cox <rsc@golang.org>
Sebastien Binet <seb.binet@gmail.com>
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http://github.com/gogo/protobuf/gogoprotoc

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Support for streaming Protocol Buffer messages for the Go language (golang).
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"OpenBSD: mail3.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $

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Mail3.nr (Berkeley) 6/8/93

Mail includes a simple facility for maintaining groups of messages together in folders. This section describes this facility.

To use the folder facility, you must tell Mail where you wish to keep your folders. Each folder of messages will be a single file. For convenience, all of your folders are kept in a single directory of your choosing. To tell Mail where your folder directory is, put a line of the form:

```
set folder=letters
```
in your .mailrc file. If, as in the example above, your folder directory does not begin with a `/',

Mail will assume that your folder directory is to be found starting from
your home directory. Thus, if your home directory is
.b /home/person
the above example told
.i Mail
to find your folder directory in
.b /home/person/letters .
.pp
Anywhere a file name is expected, you can use a folder name, preceded
with `+'. For example, to put a message into a folder with the
.b save
command, you can use:
.l
save +classwork
.jl
to save the current message in the
.i classwork
folder. If the
.i classwork
folder does not yet exist, it will be created. Note that messages
which are saved with the
.b save
command are automatically removed from your system mailbox.
.pp
In order to make a copy of a message in a folder without causing
that message to be removed from your system mailbox, use the
.b copy
command, which is identical in all other respects to the
.b save
command. For example,
.l
copy +classwork
.jl
copies the current message into the
.i classwork
folder and leaves a copy in your system mailbox.
.pp
The
.b folder
command
can be used to direct
.i Mail
to the contents of a different folder.
For example,
.l
folder +classwork
.jl
directs
.i Mail
to read the contents of the 
.mail classwork
folder. All of the commands that you can use on your system
mailbox are also applicable to folders, including 
\b type , 
\b delete ,
and
\b reply .
To inquire which folder you are currently editing, use simply:
\l(folder
\l)
\l
\p
To list your current set of folders, use the 
\b folders
command.
\p
To start
\mail
reading one of your folders, you can use the 
\b \-f
option described in section 2. For example:
\l
% Mail \-f +classwork
\l
will cause
\mail
to read your
.mail classwork
folder without looking at your system mailbox.
This section describes the format of messages. Messages begin with a
from line, which consists of the word
From followed by a user name, followed by anything, followed by
a date in the format returned by the
cdate library routine described in section 3 of the Unix Programmer's Manual. A possible
cdate format date is:
(Tue Dec  1 10:58:23 1981
The cdate date may be optionally followed by a single space and a
time zone indication, which should be three capital letters, such as PDT.
Following the
from line are zero or more
"header field" lines.
Each header field line is of the form:
(name: information
Name
can be anything, but only certain header fields are recognized as
having any meaning. The recognized header fields are:
.i article-id ,
.i bcc ,
.i cc ,
.i from ,
.i reply-to ,
.i sender ,
.i subject ,
and
.i to .
Other header fields are also significant to other systems; see, for example, the current Arpanet message standard for much more information on this topic.
A header field can be continued onto following lines by making the first character on the following line a space or tab character.
.pp
If any headers are present, they must be followed by a blank line.
The part that follows is called the .i body
of the message, and must be ASCII text, not containing null characters. Each line in the message body must be no longer than 512 characters and terminated with an ASCII newline character.
If binary data must be passed through the mail system, it is suggested that this data be encoded in a system which encodes six bits into a printable character (i.e.: uuencode). For example, one could use the upper and lower case letters, the digits, and the characters comma and period to make up the 64 characters. Then, one can send a 16-bit binary number as three characters. These characters should be packed into lines, preferably lines about 70 characters long as long lines are transmitted more efficiently.
.pp
The message delivery system always adds a blank line to the end of each message. This blank line must not be deleted.
.pp
The UUCP message delivery system sometimes adds a blank line to the end of a message each time it is forwarded through a machine.
.pp
It should be noted that some network transport protocols enforce limits to the lengths of messages.

Mail CommandDescription
--------------------------------- --------------------------------------------
t [message list] type message(s).
more [message list] read message(s), through the $PAGER
go to and type next message.
e [message list] edit message(s).
f [message list] give head lines of messages.
d [message list] delete message(s).
s [message list] <file> append message(s) to file.
u [message list] undelete message(s).
R [message list] reply to message sender(s).
r [message list] reply to message sender(s) and all recipients.
p [message list] print message list.
pre [message list] make messages go back to /var/mail.
m <recipient list> mail to specific recipient(s).
q quit, saving unresolved messages in mbox.
x quit, do not remove system mailbox.
hpri nt out active message headers.
!shell escape.
| [msglist] commandpipe message(s) to shell command.
pi [msglist] commandpipe message(s) to shell command.
ed [directory] chdir to directory or home if none given.
fi <file> switch to file (%=system inbox, %user=user's system inbox), + searches in your folder directory for the file.
set variable=[value] set Mail variable.

A [message list] consists of integers, ranges of same, :status, /subject, or user names separated by spaces. If omitted, Mail uses the current message. The pipe command doesn't accept user names or subject message list, since that might conflict with the command string.

A <recipient list> consists of recipient addresses or aliases separated by spaces. Aliases are defined in .mailrc in your home directory.

<file> is a full or relative pathname, +folder, % (system inbox), %user (specified user's system inbox), # (previous file), & (mbox file), or an expression understood by ${SHELL:-/bin/sh} -c 'echo ...'.

The following ~ escapes are defined:
~b name ... Add names to "blind" Cc: list.
~c name ... Add names to Cc: field.
~d Read dead.letter into message.
~e Invoke text editor on partial message.
~F messages Same as ~f, but includes all headers.
~f messages Read in messages.
~h Edit the header fields.
~M messages Same as ~m, but includes all headers.
~m messages Read in messages, right shifted by a tab.
~p Print (show) the message buffer.
~q Abort message; optionally save copy to ~/dead.letter.
~r file | ~< file Read a file into the message buffer.
~s string Set Subject: field to string.
~t name ... Add names to To: field.
~v Invoke display editor on message.
~w filename Write message to file.
~x Abort message; no copy is saved.
~?Print a brief summary of tilde escapes.
~!commandExecute shell command.
~|commandPipe message through command.
~:command | ~_commandExecute a Mail command.
~~stringQuote a single tilde.
~.Simulate end of file on input.

```
$OpenBSD: mail1.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $
```

```
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@
@(#)mail1.nr8.1 (Berkeley) 6/8/93
```

.sh 1 Introduction
.i Mail

provides a simple and friendly environment for sending and receiving mail.
It divides incoming mail into
its constituent messages and allows the user to deal with them
in any order. In addition, it provides a set of
.i ed -c
like commands for manipulating messages and sending mail.
.i Mail
offers the user simple editing capabilities to ease the composition of outgoing messages, as well as providing the ability to define and send to names which address groups of users. Finally, .i Mail is able to send and receive messages across such networks as the ARPANET, UUCP, and Berkeley network.

This document describes how to use the .i Mail program to send and receive messages. The reader is not assumed to be familiar with other message handling systems, but should be familiar with the \"-2UNIX\" shell, the text editor, and some of the common \-2UNIX commands. \"The -2UNIX Programmer's Manual,\" \"An Introduction to Csh,\" and \"Text Editing with Ex and Vi\" can be consulted for more information on these topics.

A word of explanation is in order here concerning the name .i Mail: the original UNIX mail program was known as .i /bin/mail. The BSD mail program was called .i Mail to differentiate it from the older mail program. .i /bin/mail is not included in OpenBSD so there is no ambiguity and the BSD mail program is installed as .i /usr/bin/mail; .i /usr/bin/Mail is simply a link for backwards compatibility. To further confuse the issue, a second link was retained for compatibility with SystemV systems, .i mailx. In this document, we use the original name, `Mail', to refer to any of these.

Here is how messages are handled: the mail system accepts incoming .i messages for you from other people and collects them in a file, called your .i "system mailbox". When you log in, the system notifies you if there are any messages
If you are a .csh user, you will be notified when new mail arrives if you inform the shell of the location of your mailbox. On OpenBSD, your system mailbox is located in the directory /var/mail in a file with your login name. If your login name is .q sam, then you can make .csh notify you of new mail by including the following line in your .cshrc file:

```csh
!(set mail=/var/mail/sam)
```

When you read your mail using .Mail, it reads your system mailbox and separates that file into the individual messages that have been sent to you. You can then read, reply to, delete, or save these messages. Each message is marked with its author and the date they sent it.
The Mail command has two distinct usages, according to whether one wants to send or receive mail. Sending mail is simple: to send a message to a user whose login name is, say, \( \texttt{root} \), use the shell command:

```
% Mail root
```

then type your message. When you reach the end of the message, type an EOT (Control-D) at the beginning of a line, which will cause Mail to echo \( \texttt{EOT} \) and return you to the Shell. When the user you sent mail to next logs in, he will receive the message:

```
You have mail.
```

to alert him to the existence of your message.

If, while you are composing the message you decide that you do not wish to send it after all, you can abort the letter with a <Control-C>. Typing a single <Control-C> causes Mail to print

```
(Interrupt -- one more to kill letter)
```

Typing a second <Control-C> causes Mail to save your partial letter on the file .q dead.letter in your home directory and abort the letter.

Once you have sent mail to someone, there is no way to undo the act, so be careful.

The message your recipient reads will consist of the message you typed, preceded by a line telling who sent the message (your login name) and the date and time it
was sent.

If you want to send the same message to several other people, you can list their login names on the command line.

Thus,

```bash
% Mail sam bob john
Tuition fees are due next Friday. Don't forget!!
<Control-D>
EOT
%
```

will send the reminder to sam, bob, and john.

If, when you log in, you see the message,

```bash
% You have mail.
```

you can read the mail by typing simply:

```bash
% Mail
```

```bash
.i Mail
```

will respond by typing its version number and date and then listing the messages you have waiting. Then it will type a prompt and await your command. The messages are assigned numbers starting with 1 - you refer to the messages with these numbers.

```bash
.i Mail
```

keeps track of which messages are

.i new

(have been sent since you last read your mail) and

.i read

(have been read by you). New messages have an

```bash
.b N
```

next to them in the header listing and old, but unread messages have a

```bash
.b U
```

next to them.

```bash
.i Mail
```

keeps track of new/old and read/unread messages by putting a header field called

```bash
.q Status
```

into your messages.

```bash
.p
```

To look at a specific message, use the

```bash
.b type
```

collection, which may be abbreviated to simply

```bash
.b t
```
For example, if you had the following messages:
\(N\) 1 root Wed Sep 21 09:21 "Tuition fees"
\(N\) 2 sam Tue Sep 20 22:55
\(>)\(l\)
you could examine the first message by giving the command:
\(\langle l\)
type 1
\(\rangle\l\)
which might cause
\(\langle i\) Mail\)
to respond with, for example:
\(\langle l\)
Message 1:
From root Wed Sep 21 09:21:45 1978
Subject: Tuition fees
Status: R

Tuition fees are due next Wednesday. Don't forget!!
\(\rangle\l\)
Many
\(\langle i\) Mail\)
commands that operate on messages take a message number as an argument like the
\(\langle b\) type\)
command. For these commands, there is a notion of a current message. When you enter the
\(\langle i\) Mail\)
program, the current message is initially the first one. Thus, you can often omit the message number and use, for example,
\(\langle l\)
t
\(\rangle\l\)
to type the current message. As a further shorthand, you can type a message by simply giving its message number. Hence,
\(\langle l\)
1
\(\rangle\l\)
would type the first message.
\(\langle p\)
Frequently, it is useful to read the messages in your mailbox in order, one after another. You can read the next message in
\(\langle i\) Mail\)
by simply typing a newline. As a special case, you can type a newline as your first command to
\(\langle i\) Mail\)
to type the first message.
If, after reading a message, you wish to immediately send a reply, you can do so with the `reply` command. This is similar to the `type` command:

```
.reply
```

Mail then begins a message addressed to the user who sent you the message. You may then type your letter in reply, followed by a `<Control-D>` at the beginning of a line, as before.

```
.reply
```

Mail responds by typing:

```
.reply
```

Mail will type EOT, then type the ampersand prompt to indicate its readiness to accept another command. In our example, if, after typing the first message, you wished to reply to it, you might give the command:

```
.reply
```

Mail responds by typing:

```
.T to: root
Subject: Re: Tuition fees
.reply
```

and waiting for you to enter your letter.

You are now in the message collection mode described at the beginning of this section and Mail will gather up your message up to a `<Control-D>`. Note that it copies the subject header from the original message. This is useful in that correspondence about a particular matter will tend to retain the same subject heading, making it easy to recognize. If there are other header fields in the message, the information found will also be used.

For example, if the letter had a `"To:"` header listing several recipients, Mail would arrange to send your reply to the same people as well. Similarly, if the original message contained a `"Cc:"` (carbon copies to) field, Mail would send your reply to those users, too.
Mail is careful, though, not too send the message to you, even if you appear in the “To:” or “Cc:” field, unless you ask to be included explicitly. See section 4 for more details.

After typing in your letter, the dialog with Mail might look like the following:

```
reply
To: root
Subject: Tuition fees

Thanks for the reminder
EOT
&
)
.
.

The reply command is especially useful for sustaining extended conversations over the message system, with other listening users receiving copies of the conversation. The reply command can be abbreviated to r.

Sometimes you will receive a message that has been sent to several people and wish to reply to the person who sent it.

Reply with a capital R replies to a message, but sends a copy to the sender only.

If you wish, while reading your mail, to send a message to someone, but not as a reply to one of your messages, you can send the message directly with the mail command, which takes as arguments the names of the recipients you wish to send to. For example, to send a message to
.q frank,
you would do:
./l
mbox frank
This is to confirm our meeting next Friday at 4.
EOT
&
>l
The.
.b mail
command can be abbreviated to.
.b m .
-pp
Normally, each message you receive is saved in the file.
.i mbox
in your login directory at the time you leave.
.i Mail .
Often,
however, you will not want to save a particular message you
have received because it is only of passing interest. To avoid
saving a message in.
.i mbox
you can delete it using the.
.b delete
command. In our example,
./l
delete 1
>l
will prevent.
.i Mail
from saving message 1 (from root) in.
.i mbox .
In addition to not saving deleted messages,
.i Mail
will not let
you type them, either. The effect is to make the message disappear
altogether, along with its number. The.
.b delete
command can be abbreviated to simply.
.b d .
-pp
Many features of.
.i Mail
can be tailored to your liking with the.
.b set
command. The.
.b set
command has two forms, depending on whether you are setting
Binary options are either on or off. For example, the .q ask option informs .i Mail that each time you send a message, you want it to prompt you for a subject header, to be included in the message.

To set the .q ask option, you would type .(l
set ask
)l

Another useful .i Mail option is .q hold. Unless told otherwise, .i Mail moves the messages from your system mailbox to the file .i mbox in your home directory when you leave .i Mail. If you want .i Mail to keep your letters in the system mailbox instead, you can set the .q hold option.

Valued options are values which .i Mail uses to adapt to your tastes. For example, the .q SHELL option tells .i Mail which shell you like to use, and is specified by .(l
set SHELL=/bin/csh
)l
for example. Note that no spaces are allowed in "SHELL=/bin/csh." A complete list of the .i Mail

a .i binary option or a .i valued option.
Another important valued option is .q crt.
If you use a fast video terminal, you will find that when you print long messages, they fly by too quickly for you to read them. With the .q crt option, you can make .i Mail print any message larger than a given number of lines by sending it through a paging program. This program is specified by the valued option \BPAGER\fP. If \BPAGER\fP is not set, a default paginator is used.
For example, most CRT users with 24-line screens should do:
\( l 
set crt=24 
)l
\( l 
to paginate messages that will not fit on their screens.
In the default state, \fImore\fP (default paginator) prints a screenful of information, then types “byte XXX”, where `XXX' represents the number of bytes paginated.
Type a space to see the next screenful.
\( pp 
Another adaptation to user needs that .i Mail provides is that of .i aliases . An alias is simply a name which stands for one or more real user names.
\( b alias 
sent to an alias is really sent to the list of real users associated with it. For example, an alias can be defined for the members of a project, so that you can send mail to the whole project by sending mail to just a single name. The .b alias command in .i Mail defines an alias. Suppose that the users in a project are named Sam, Sally, Steve, and Susan. To define an alias called .q project for them, you would use the .i Mail command:
\( l 
alias project sam sally steve susan 
)l
The
.b alias
command can also be used to provide a convenient name for someone
whose user name is inconvenient. For example, if a user named
.q "Bob Anderson"
had the login name
.q anderson,
you might want to use:
.(l
alias bob anderson
)l
so that you could send mail to the shorter name,
.q bob.
.pp
While the
.b alias
and
.b set
commands allow you to customize
.i Mail ,
they have the drawback that they must be retyped each time you enter
.i Mail .
To make them more convenient to use,
.i Mail
always looks for two files when it is invoked. It first reads
a system wide file
.q /etc/mail.rc,
then a user specific file,
.q .mailrc,
which is found in the user's home directory.
The system wide file
is maintained by the system administrator and
contains
.b set
commands that are applicable to all users of the system.
The
.q .mailrc
file is usually used by each user to set options the way he likes
and define individual aliases.
For example, my .mailrc file looks like this:
.(l
set ask nosave SHELL=/bin/csh
)l
As you can see, it is possible to set many options in the
same
.b set
command. The
.q nosave
option is described in section 5.
Mail aliasing is implemented at the system-wide level by the mail delivery system.

These aliases are stored in the file `/etc/mail/aliases` and are accessible to all users of the system. The lines in `/etc/mail/aliases` are of the form:

```
(alias: name<1>, name<2>, name<3>)
```

where `alias` is the mailing list name and the `name<i>` are the members of the list. Long lists can be continued onto the next line by starting the next line with a space or tab. Remember that you must execute the command `newaliases` (as superuser) after editing `/etc/mail/aliases` since the delivery system uses an indexed file created by `newaliases`.

We have seen that `Mail` can be invoked with command line arguments which are people to send the message to, or with no arguments to read mail. Specifying the `-f` flag on the command line causes `Mail` to read messages from a file other than your system mailbox. For example, if you have a collection of messages in the file `letters` you can use `Mail` to read them with:

```
% Mail -f letters
```

You can use all the `Mail` commands described in this document to examine, modify, or delete
messages from your .q letters file, which will be rewritten when you leave .i Mail with the .b quit command described below.

Since mail that you read is saved in the file .i mbox in your home directory by default, you can read .i mbox in your home directory by using simply .(l
%
Mail -f
.)l
.

Normally, messages that you examine using the .b type command are saved in the file .q mbox in your home directory if you leave .i Mail with the .b quit command described below. If you wish to retain a message in your system mailbox you can use the .b preserve command to tell .i Mail to leave it there. The .b preserve command accepts a list of message numbers, just like .b type and may be abbreviated to .b pre .

Messages in your system mailbox that you do not examine are normally retained in your system mailbox automatically. If you wish to have such a message saved in .i mbox without reading it, you may use the .b mbox command to have them so saved. For example, .(l
mbox 2
in our example would cause the second message (from sam) to be saved in
)mbox when the
)b quit command is executed.
)b Mbox is also the way to direct messages to your
)i mbox file if you have set the
)q hold option described above.
)b Mbox can be abbreviated to
)b mb.

When you have perused all the messages of interest, you can leave
)i Mail with the
)b quit command, which saves the messages you have typed but not deleted in the file
)i mbox in your login directory. Deleted messages are discarded irretrievably, and messages left untouched are preserved in your system mailbox so that you will see them the next time you type:
%( Mail
)) Mail
The
)b quit command can be abbreviated to simply
)b q.

If you wish for some reason to leave
)i Mail quickly without altering either your system mailbox or
)i mbox, you can type the
)b x command (short for
)b exit), which will immediately return you to the Shell without changing anything.

If, instead, you want to execute a Shell command without leaving
)i Mail, you
can type the command preceded by an exclamation point, just as in the
text editor. Thus, for instance:

> !

will print the current date without leaving

.i Mail

Finally, the

.b help

command is available to print out a brief summary of the

.i Mail

commands, using only the single character command abbreviations.

"$OpenBSD: maila.nr,v 1.3 2003/06/03 02:56:11 millert Exp $

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"@(#)maila.nr 8.1 (Berkeley) 6/8/93

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This section describes some additional commands useful for reading your mail, setting options, and handling lists of messages.

Several Mail commands accept a list of messages as an argument. Along with type and delete, described in section 2, there is the from command, which prints the message headers associated with the message list passed to it. The from command is particularly useful in conjunction with some of the
message list features described below.

A "message list" consists of a list of message numbers, ranges, and names, separated by spaces or tabs. Message numbers may be either decimal numbers, which directly specify messages, or one of the special characters

- `^`
- `.`
- `$`

to specify the first relevant, current, or last relevant message, respectively.

A range of messages consists of two message numbers (of the form described in the previous paragraph) separated by a dash. Thus, to print the first four messages, use

```plaintext
type 1\-4
```

and to print all the messages from the current message to the last message, use

```plaintext
type \$.\$
```

A name is a user name. The user names given in the message list are collected together and each message selected by other means is checked to make sure it was sent by one of the named users. If the message consists entirely of user names, then every message sent by one of those users that is relevant (in the sense described earlier) is selected. Thus, to print every message sent to you by `root`, do

```plaintext
doi
```
As a shorthand notation, you can specify simply

.q *

to get every

.i relevant

(same sense)

message. Thus,

.q

type *

prints all undeleted messages,

.q

delete *

 deletes all undeleted messages, and

.q

undelete *

undelestes all deleted messages.

You can search for the presence of a word in subject lines with

.b /.

For example, to print the headers of all messages that contain the

word

.PASCAL,

do:

.from /pascal

Note that subject searching ignores upper/lower case differences.

This section describes all the

.commands available when receiving mail.

The

.command goes to the previous message and prints it. The

.command may be given a decimal number

as an argument, in which case the

previous message is gone to and printed.
Prints a brief summary of commands.

Used to preface a command to be executed by the shell.

Like

but also print out ignored header fields. See also \bPrint, \bIgnore, and \bRetain.

\bPrint can be abbreviated to \bP.

Note the capital \bR in the name.

Frame a reply to one or more messages.

The reply (or replies if you are using this on multiple messages) will be sent ONLY to the person who sent you the message (respectively, the set of people who sent the messages you are replying to).

You can add people using the \b~t, \b~c, and \b~b tilde escapes. The subject in your reply is formed by prefacing the subject in the original message with

\q "Re:"

unless it already began thus.

If the original message included a \q header field, the reply will go \i only to the recipient named by \q "reply-to."

You type in your message using the same conventions available to you through the \b mail command.

The \b Reply command is especially useful for replying to messages that were sent to enormous distribution groups when you really just want to send a message to the originator. Use it often.

\bReply (and \bRespond) can be abbreviated to \bR.

Identical to the \b Print command.

\bPrint can be abbreviated to \bP.

Define a name to stand for a set of other names.

This is used when you want to send messages to a certain group of people and want to avoid retyping their names.
For example,

```
.l
alias project john sue willie kathryn
.l
```

creates an alias

```
.i project
```

which expands to the four people John, Sue, Willie, and Kathryn. If no arguments are given, all currently-defined aliases are printed. If one argument is given, that alias is printed (if it exists).

```
\BAlias\P can be abbreviated to \Ba\P.
.ip "\Balternates\P\"
```

If you have accounts on several machines, you may find it convenient to use /etc/mail/aliases on all the machines except one to direct your mail to a single account.

The

```
.b alternates
.command is used to inform
.i Mail
```

that each of these other addresses is really

```
.i you.
```

```
.i Alternates
```

takes a list of user names and remembers that they are all actually you. When you

```
.b reply
```
to messages that were sent to one of these alternate names,

```
.i Mail
```

will not bother to send a copy of the message to this other address (which would simply be directed back to you by the alias mechanism). If

```
.i alternates
```
is given no argument, it lists the current set of alternate names.

```
.b Alternates
```
is usually used in the .mailrc file.

```
\BAalternates\P can be abbreviated to \Balt\P.
.ip "\Bchdir\P\"
```

The

```
.b chdir
```

command allows you to change your current directory.

```
.b Chdir
```

takes a single argument, which is taken to be the pathname of the directory to change to. If no argument is given,

```
.b chdir
```

changes to your home directory.

```
\Bchdir\P can be abbreviated to \Bc\P.
.ip "\Bcopy\P\"
```

The

```
.b copy
```

command does the same thing that
.b save
does, except that it does not mark the messages it is used on
for deletion when you quit.
\fBCopy\fP can be abbreviated to \fBco\fP.
.ip "\fBdelete\fP\ "
Deletes a list of messages. Deleted messages can be reclaimed
with the
.b undelete
command.
\fBDelete\fP can be abbreviated to \fBd\fP.
.ip "\fBdp\fP or \fBdt\fP\ "
These
commands delete the current message and print the next message.
They are useful for quickly reading and disposing of mail.
If there is no next message, \fIMail\fP says ``No more messages.''
.ip "\fBedit\fP\ "
To edit individual messages using the text editor, the
.b edit
command is provided. The
.b edit
command takes a list of messages as described under the
.b type
command and processes each by writing it into the file
Message\c
.i x
where
.i x
is the message number being edited and executing the text editor on it.
When you have edited the message to your satisfaction, write the message
out and quit, upon which
.i Mail
will read the message back and remove the file.
.b Edit
can be abbreviated to
.b e.
.ip "\fBelse\fP\ "
Marks the end of the then-part of an
.b if
statement and the beginning of the
part to take effect if the condition of the
.b if
statement is false.
.ip "\fBendif\fP\ "
Marks the end of an
.b if
statement.
.ip "\fBexit\fP or \fBxit\fP\ "
Leave
Mail without updating the system mailbox or the file you were reading. Thus, if you accidentally delete several messages, you can use `exit` to avoid scrambling your mailbox. 

`""` can be abbreviated to `""`.

The same as `""`.

`""` can be abbreviated to `""`.

List the names of the folders in your folder directory.

The

command switches to a new mail file or folder. With no arguments, it tells you which file you are currently reading. If you give it an argument, it will write out changes (such as deletions) you have made in the current file and read the new file. Some special conventions are recognized for the name:

```
(b
.TS
center;
c
l a.
Name	Meaning
_ #Previous file read
% Your system mailbox
%name\fav's system mailbox
&Your ~/mbox file
+folder A file in your folder directory
.TE
)
```

`""` can be abbreviated to `""`.

The

command takes a list of messages and prints out the header lines for each one; hence

```
(l
from joe
l
is the easy way to display all the message headers from \*lqjoe.\*rq
```

`""` can be abbreviated to `""`.

When you start up
to read your mail, it lists the message headers that you have. These headers tell you who each message is from, when they were received, how many lines and characters each message is, and the .q "Subject:"
header field of each message, if present. In addition, .i Mail
tags the message header of each message that has been the object
of the .b preserve
command with a .q P.
Messages that have been .b saved
or .b written
are flagged with a .q *.
Finally, .b deleted
messages are not printed at all. If you wish to reprint the current list of message headers, you can do so with the .b headers
command. The .b headers
command (and thus the initial header listing) only lists the first so many message headers. The number of headers listed depends on the speed of your terminal. .i Mail
maintains a notion of the current .q window
into your messages for the purposes of printing headers. Use the .b z
command to move forward a window,
and .b z-
to move back a window.
You can move .i Mail's notion of the current window directly to a particular message by using, for example,
.(l
headers 40
).l
to move .i Mail's attention to the messages around message 40.
The .i man page for .i mail is usually more up-to-date than either the help message or this manual. It is also a synonym for .fB?fP.

Arranged to hold a list of messages in the system mailbox, instead of moving them to the file .i mbox in your home directory. If you set the binary option .i hold, this will happen by default.

It does not override the .fBdeletefP command.

Commands in your .q .mailrc file can be executed conditionally depending on whether you are sending or receiving mail with the .b if command. For example, you can do:

!(1
if receive
!(1
commands...
endif
)1

An .b else form is also available:

!(1
if send
!(1
commands...
else
!(1
commands...
endif
)1

Note that the only allowed conditions are .b receive and .b send.

.N.B.:
Ignore has been superseded by
retain.

Add the list of header fields named to the "ignore list".
Header fields in the ignore list are not printed on your terminal when you print a message. This allows you to suppress printing of certain machine-generated header fields, such as Via which are not usually of interest. The Type and Print commands can be used to print a message in its entirety, including ignored fields.

If ignore is executed with no arguments, it lists the current set of ignored fields.

Incorporate any new messages that have arrived while mail is being read. The new messages are added to the end of the message list, and the current message is reset to be the first new mail message. This does not renumber the existing message list, nor does it cause any changes made so far to be saved.

List the valid commands. List can be abbreviated to L.

Define a list of local names for this host. This command is useful when the host is known by more than one name. Names in the list may be qualified by the domain of the host. The first name on the local list is the distinguished name of the host. The names on the local list are used by Mail to decide which addresses are local to the host. For example:

```
local ucbarpa.BERKELEY.ARPA arpa.BERKELEY.ARPA \narpavax.BERKELEY.ARPA r.BERKELEY.ARPA \ncarb-arpa.ARPA
```

From this list we see that "fred@ucbarpa.BERKELEY.ARPA", "fred@arpavax.BERKELEY.ARPA", "fred@r.BERKELEY.ARPA", and "fred@carb-arpa.ARPA"...
.. i "harold@arpa.BERKELEY",
.. and
.. i "larry@r"
.. are all addresses of users on the local host.
.. The
.. b local
.. command is usually not used by general users since it is designed for
.. local configuration; it is usually found in the file /usr/lib/Mail.rc.
..i "fBmailfP\"
Send mail to one or more people. If you have the
..i ask
option set,
..i Mail
will prompt you for a subject to your message. Then you
can type in your message, using tilde escapes as described in
section 4 to edit, print, or modify your message. To signal your
satisfaction with the message and send it, type <Control-D> at the
beginning of a line, or a . alone on a line if you set the option
..i dot .
To abort the message, type two interrupt characters (Control-C
by default) in a row or use the
..b ~q
or
..b ~x
escapes.
The \fBmail\ command can be abbreviated to \fBm\.
..p "fBmboxfP\"
Indicate that a list of messages be sent to
..i mbox
in your home directory when you quit. This is the default
action for messages if you do
..i not
have the
..i hold
option set.
..p "fBmorefP\"
Takes a message list and invokes the pager on that list.
..p "fBnextfP or \fB+\fP\"
The
..b next
command goes to the next message and types it. If given a message list,
..b next
goes to the first such message and types it. Thus,
..l
next root
..l
goes to the next message sent by
..q root
and types it. The
.b next
command can be abbreviated to simply a newline, which means that one
can go to and type a message by simply giving its message number or
one of the magic characters
.q "^a"
.q "."
or
.q "$".
Thus,
.(l
\&.
.)l
prints the current message and
.(l
4
.)l
prints message 4, as described previously.
\fBNext\fP can be abbreviated to \fBn\fP.
.ip "\fBpreserve\fP  \ "
Same as
.b hold .
Cause a list of messages to be held in your system mailbox when you quit.
\fBPreserve\fP can be abbreviated to \fBpre\fP.
.ip "\fBprint\fP  \ "
Print the specified messages. If the
.b crt
variable is set, messages longer than the number of lines it indicates
are paged through the command specified by the \fBPAGER\fP variable.
The \fBprint\fP command can be abbreviated to \fBp\fP.
.ip "\fBquit\fP  \ "
Terminates the session, saving all undeleted, unsaved and unwritten messages
in the user's \fImbox\fP file in their login directory
(messages marked as having been read), preserving all
messages marked with \fBhold\fP or \fBpreserve\fP or never referenced
in their system mailbox.
Any messages that were deleted, saved, written, or saved to \fImbox\fP are
removed from their system mailbox.
If new mail has arrived during the session, the message
"You have new mail" is given. If given while editing a mailbox file
with the \fBv-f\fP flag, then the edit file is rewritten.
A return to the Shell is effected, unless the rewrite of edit file fails,
in which case the user can escape with the \fBexit\fP command.
\fBQuit\fP can be abbreviated to \fBq\fP.
.ip "\fBreply\fP or \fBrespond\fP  \ "
Frame a reply to a single message.
The reply will be sent to the
person who sent you the message (to which you are replying), plus all
the people who received the original message, except you. You can
add people using the \texttt{~t}, \texttt{~c}, and \texttt{~b} tilde escapes. The subject in your reply is formed by prefacing the
subject in the original message with
\texttt{.q "Re:"}
unless it already began thus.
If the original message included a
\texttt{.q "reply-to"}
header field, the reply will go
\texttt{i only}
to the recipient named by
\texttt{.q "reply-to."}
You type in your message using the same conventions available to you
through the
\texttt{.b mail}
cmdand.
The \texttt{reply} command can be abbreviated to \texttt{r}.
\texttt{.ip "retain\ \
"}
Add the list of header fields named to the \texttt{retain list}.
Only the header fields in the retain list
are shown on your terminal when you print a message.
All other header fields are suppressed.
The
\texttt{.b Type}
and
\texttt{.b Print}
cmds can be used to print a message in its entirety.
If
\texttt{.b retain}
is executed with no arguments, it lists the current set of
retained fields.
\texttt{.ip "save\ 
"}
It is often useful to be able to save messages on related topics
in a file. The
\texttt{.b save}
cmd gives you the ability to do this. The
\texttt{.b save}
cmd takes as an argument a list of message numbers, followed by
the name of the file in which to save the messages. The messages
are appended to the named file, thus allowing one to keep several
messages in the file, stored in the order they were put there.
The filename in quotes, followed by the line
count and character count is echoed on the user's terminal.
An example of the
\texttt{.b save}
cmd relative to our running example is:
\texttt{.l}
s 1 2 tuitionmail
Saved messages are not automatically saved in `mbox` at quit time, nor are they selected by the `next` command described above, unless explicitly specified. `Save` can be abbreviated to `s`.

```
'Bsaveignore'
```

`saveignore` is to `save` what `ignore` is to `print` and `type`.

Header fields thus marked are filtered out when saving a message by `save` or when automatically saving to `inbox`.

```
'Bsaveretain'
```

`saveretain` is to `save` what `retain` is to `print` and `type`.

Header fields thus marked are the only ones saved with a message when saving by `save` or when automatically saving to `inbox`.

`saveretain` overrides `saveignore`.

```
'set'
```

Set an option or give an option a value. Used to customize `Mail`.

Section 5.3 contains a list of the options. Options can be` binary`, in which case they are
`on` or
`off`, or
`valued`.

To set a binary option
```
set option = on
```

To give the valued option
```
set option = value
```

There must be no space before or after the `=` sign.

If no arguments are given, all variable values are printed.

Several options can be specified in a single
.b set
command.
\fBSet\fP can be abbreviated to \fBse\fP.
.ip "\fBshell\fP\ "
The .b shell
command allows you to
escape to the shell.
\fBShell
invokes an interactive shell and allows you to type commands to it.
When you leave the shell, you will return to
.i Mail.
The shell used is a default assumed by
.i Mail;
you can override this default by setting the valued option
.q SHELL,
eg:
,(l
set SHELL=/bin/csh
,)l
\fBShell\fP can be abbreviated to \fBsh\fP.
.ip "\fBsize\fP\ "
Takes a message list and prints out the size in characters of each
message.
.ip "\fBsource\fP\ "
The .b source
command reads
.i mail
commands from a file. It is useful when you are trying to fix your
.q .mailrc
file and you need to re-read it.
\fBSource\fP can be abbreviated to \fBso\fP.
.ip "\fBtop\fP\ "
The .b top
command takes a message list and prints the first five lines
of each addressed message.
If you wish, you can change the number of lines that
.b top
prints out by setting the valued option
.q "toplines."
On a CRT terminal,
,(l
set toplines=10
,)l
might be preferred.
\fBTop\fP can be abbreviated to \fBto\fP.
Same as `type`.
Takes a message list and types out each message on the terminal.
The `type` command can be abbreviated to `t`.

`unalias` takes a list of names defined by `alias` commands and
discards the remembered groups of users.
The group names no longer have any significance.

`undelete` takes a message list and marks each message as `not` being deleted.
`undelete` can be abbreviated to `u`.

`unread` takes a message list and marks each message as `not` having been read.
`unread` can be abbreviated to `u`.

`unset` takes a list of option names and discards their remembered values;
the inverse of `set`.

It is often useful to be able to invoke one of two editors,
based on the type of terminal one is using. To invoke
a display oriented editor, you can use the
`visual` command. The operation of the
`visual` command is otherwise identical to that of the
`edit` command.

Both the `edit` and `visual` commands assume some default text editors.
The default for `EDITOR` is
```
/usr/bin/ex
```
The default for `VISUAL` is
```
/usr/bin/vi
```
These default editors can be overridden by the valued options
`EDITOR` and
`VISUAL`.
for the standard and screen editors. You might want to do:

```
set EDITOR=/bin/ed VISUAL=/usr/bin/mg
```

The `VISUAL` command can be abbreviated to `v`.

The `save` command always writes the entire message, including the headers, into the file. If you want to write just the message itself, you can use the `write` command. The `write` command has the same syntax as the `save` command, and can be abbreviated to simply `w`.

Thus, we could write the second message by doing:

```
w 2 file.c
```

As suggested by this example, the `write` command is useful for such tasks as sending and receiving source program text over the message system. The filename in quotes, followed by additional file information, is echoed on the user's terminal.

Mail presents message headers in windowfuls as described under the `headers` command. You can move Mail's attention forward to the next window by giving the `z+` command. Analogously, you can move to the previous window with:

```
z-
```

Throughout this manual, we have seen examples of binary and valued options.
This section describes each of the options in alphabetical order, including some that you have not seen yet.

To avoid confusion, please note that the options are either all lower case letters or all upper case letters. When I start a sentence such as:
qv "Ask"
causes
qv Mail
to prompt you for a subject header,
I am only capitalizing qv ask
as a courtesy to English.
qv "$EDITOR\""
The valued option
qv EDITOR
defines the pathname of the text editor to be used in the
qv .b edit
command and ~v escape.
If not defined,
vq /usr/bin/ex
is used.
vq "$BLISTER\""
Pathname of the directory lister to use in the "$folders$" command.
Default is $/bin/ls$.
vq "$BMBOX\""
The name of the "$mbox$" file.
It can be the name of a folder.
The default is "$mbox" in the user's home directory.
vq "$BPAGER\""
Pathname of the program to use for paginating output when it exceeds "$crt$" lines.
A default paginator is used if this option is not defined.
vq "$BSHELL\""
The valued option
qv SHELL
gives the path name of your shell. This shell is used for the
qv .b
command and ~! escape. In addition, this shell expands file names with shell metacharacters like * and ? in them.
vq "$BVISUAL\""
The valued option
qv VISUAL
defines the pathname of the screen editor to be used in the
qv .b visual
command
and ~v escape.
If not defined,
vq /usr/bin/vi
The `.q append` option is binary and causes messages saved in `.i mbox` to be appended to the end rather than prepended. Normally, `.r Mmail` will put messages in `.i mbox` in the same order that the system puts messages in your system mailbox. By setting `.q append`, you are requesting that `.i mbox` be appended to regardless. It is in any event quicker to append.

`.q "Ask"

is a binary option which causes `.r Mail` to prompt you for the subject of each message you send. If you respond with simply a newline, no subject field will be sent.

`.q "Askbcc"

is a binary option which causes you to be prompted for additional blind carbon copy recipients at the end of each message. Responding with a newline shows your satisfaction with the current list.

`.q "Askcc"

is a binary option which causes you to be prompted for additional carbon copy recipients at the end of each message. Responding with a newline shows your satisfaction with the current list.

`.q "Autoinc"

Causes new mail to be automatically incorporated when it arrives. Setting this is similar to issuing the `.i Binvc` command at each prompt, except that the current message is not reset when new mail arrives.

`.q "Autoprint"

is a binary option which causes the `.b delete` command to behave like `.b dp ":- thus, after deleting a message, the next one will be typed automatically. This is useful when quickly scanning and deleting messages in your mailbox.
The valued option `crt` is used as a threshold to determine how long a message must be before

The binary option `debug` causes debugging information to be displayed. Use of this option is the same as using the `-d` command line flag.

A binary option which, if set, causes `Mail` to interpret a period alone on a line as the terminator of the message you are sending.

To allow you to change the escape character used when sending mail, you can set the valued option `escape`. Only the first character of the `escape` option is used, and it must be doubled if it is to appear as the first character of a line of your message. If you change your escape character, then ~ loses all its special meaning, and need no longer be doubled at the beginning of a line.

The name of the directory to use for storing folders of messages. If this name begins with a `/`, `Mail` considers it to be an absolute pathname; otherwise, the folder directory is found relative to your home directory.

The binary option `hold` causes messages that have been read but not manually dealt with to be held in the system mailbox. This prevents such messages from being automatically swept into your ` inbox` file.

The binary option `ignore` causes `<Control-C>` characters from your terminal to be ignored and echoed as `@`'s while you are sending mail. `<Control-C>` characters retain their original meaning in `Mail` command mode.
Setting the .q\ignore option is equivalent to supplying the .b\-i flag on the command line as described in section 6.

An option related to .q\ dot is .q\ ignoreeof, which makes .i Mail refuse to accept a <Control-D> as the end of a message.

Also applies to . Mail command mode.

String used by the .t~m\ tilde escape for indenting messages, in place of the normal tab character (`^I'). Be sure to quote the value if it contains spaces or tabs.

The .q\ keep option causes .i Mail to truncate your system mailbox instead of deleting it when it is empty. This is useful if you elect to protect your mailbox, which you would do with the shell command:

```
chmod 600 /var/mail/yourname
```

where .i\ yourname is your login name. If you do not do this, anyone can probably read your mail, although people usually don't.

When you .b\ save a message, .i Mail usually discards it when you .b\ quit. To retain all saved messages, set the .q\ keepsave option.

When sending mail to an alias,
.i Mail
makes sure that if you are included in the alias, that mail will not
be sent to you. This is useful if a single alias is being used by
all members of the group. If however, you wish to receive a copy of
all the messages you send to the alias, you can set the binary option
.q metoo.
.ip "\fBnoheader\fP\ "
The binary option
.q noheader
suppresses the printing of the version and headers when
.i Mail
is first invoked. Setting this option is the same as using
.b \-N
on the command line.
.ip "\fBnosave\fP\ "
Normally,
when you abort a message with two <Control-C>'s,
.i Mail
copies the partial letter to the file
.q dead.letter
in your home directory. Setting the binary option
.q nosave
prevents this.
.ip "\fBReplyall\fP\ "
Reverses the sense of
.i reply
and
.i Reply
commands.
.ip "\fBquiet\fP\ "
The binary option
.q quiet
suppresses the printing of the version when
.i Mail
is first invoked,
as well as printing the for example
.q "Message 4:"
from the
.b type
command.
.ip "\fBrecord\fP\ "
If you love to keep records, then the
valued option
.q record
can be set to the name of a file to save your outgoing mail.
Each new message you send is appended to the end of the file.
.ip "\fBscreen\fP\ "
When
initially prints the message headers, it determines the number to print by looking at the speed of your terminal. The faster your terminal, the more it prints.

The valued option

overrides this calculation and specifies how many message headers you want printed. This number is also used for scrolling with the command.

If this option is set, then a message-list specifier in the form `/x:y` will expand to all messages containing the substring `y` in the header field `x`.

The string search is case insensitive. If `x` is omitted, it will default to the `Subject` header field.

The form `~/to:y` is a special case, and will expand to all messages containing the substring `y` in the `To`, `Cc`, or `Bcc` header fields.

The check for `to` is case sensitive, so that `/To:y` can be used to limit the search for `y` to just the `To:` field.

To use an alternate mail delivery system, set the option to the full pathname of the program to use. Note: this is not for everyone! Most people should use the default delivery system.

The valued option defines the number of lines that the command will print out instead of the default five lines.

The binary option "verbose" causes to invoke sendmail with the flag, which causes it to go into verbose mode and announce expansion of aliases, etc. Setting the "verbose" option is equivalent to invoking with the flag as described in section 6.
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@(#)mail8.nr 8.2 (Berkeley) 5/16/94

This section contains the definitions of a few phrases peculiar to Mail.

An alternative name for a person or list of people.

An option, given on the command line of Mail, prefaced with a \-. For example, \b \-f is a flag.

At the beginning of a message, a line which contains information that is part of the structure of the message. Popular header fields include

.i to,
.i cc,
A collection of messages. Often used in the phrase, "Have you read your mail?"
The place where your mail is stored, typically in the directory /var/mail.
A single letter from someone, initially stored in your mailbox.
A string used in command mode to describe a sequence of messages.
A piece of special purpose information used to tailor Mail to your taste.
Options are specified with the `set` command.

```
$OpenBSD: mail0.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $

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MAIL REFERENCE MANUAL

Kurt Shoens

Revised by

Craig Leres
and

Mark Andrews

Version 5.5

\*\*(td
\*\*
This section gives a quick summary of the Mail commands, binary and valued options, and tilde escapes.

The following table describes the commands:

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>Same as <code>next</code></td>
</tr>
<tr>
<td>-</td>
<td>Back up to previous message</td>
</tr>
<tr>
<td>?</td>
<td>Print brief summary of <code>Mail</code> commands</td>
</tr>
<tr>
<td>!</td>
<td>Single command escape to shell</td>
</tr>
<tr>
<td>Print</td>
<td>Type message with ignored fields</td>
</tr>
<tr>
<td>Reply</td>
<td>Reply to author of message only</td>
</tr>
</tbody>
</table>
Respond Same as \texttt{\textbackslash B\textbackslash Reply}\texttt{\textbackslash P}

Type Type message with ignored fields

alias Define an alias as a set of user names

alternates List other names you are known by

chdir Change working directory, home by default

copy Copy a message to a file or folder

delete Delete a list of messages

dp Same as \texttt{\textbackslash Bd\textbackslash t}\texttt{\textbackslash P}

dt Delete current message, type next message

edit Edit a list of messages

else Start of else part of conditional; see \texttt{\textbackslash B\textbackslash if}\texttt{\textbackslash P}

endif End of conditional statement; see \texttt{\textbackslash B\textbackslash if}\texttt{\textbackslash P}

exit Leave mail without changing anything

file Interrogate/change current mail file

folder Same as \texttt{\textbackslash B\textbackslash file}\texttt{\textbackslash P}

folders List the folders in your folder directory

from List headers of a list of messages

headers List current window of messages

help Same as \texttt{\textbackslash B\textbackslash ?}\texttt{\textbackslash P}

hold Same as \texttt{\textbackslash B\textbackslash preserve}\texttt{\textbackslash P}

if Conditional execution of \texttt{\textbackslash M\textbackslash ail}\texttt{\textbackslash P} commands

ignore Set/examine list of ignored header fields

inc Incorporate new messages

list List valid \texttt{\textbackslash M\textbackslash ail}\texttt{\textbackslash P} commands

mail Send mail to specified names

mbox Arrange to save a list of messages in \texttt{\textbackslash M\textbackslash box}\texttt{\textbackslash P}

more Invoke pager on message list

next Go to next message and type it

preserve Arrange to leave list of messages in system mailbox

print Print messages

quit Leave \texttt{\textbackslash M\textbackslash ail}\texttt{\textbackslash P}; update system mailbox, \texttt{\textbackslash M\textbackslash box}\texttt{\textbackslash P} as appropriate

reply Compose a reply to a message

respond Same as \texttt{\textbackslash B\textbackslash reply}\texttt{\textbackslash P}

retain Supersedes \texttt{\textbackslash B\textbackslash ignore}\texttt{\textbackslash P}

save Append messages, headers included, on a file

saveignore List of headers to ignore when using the \texttt{\textbackslash B\textbackslash save}\texttt{\textbackslash P} command

saveretain List of headers to retain when using the \texttt{\textbackslash B\textbackslash save}\texttt{\textbackslash P} command

set Set binary or valued options

shell Invoke an interactive shell

size Prints out size of message list

source Read \texttt{\textbackslash M\textbackslash ail}\texttt{\textbackslash P} commands from a file

top Print first so many (5 by default) lines of list of messages

type Same as \texttt{\textbackslash B\textbackslash print}\texttt{\textbackslash P}

unalias Remove alias

undelete Undelete list of messages

unread Marks list of messages as not been read

unset Undo the operation of a \texttt{\textbackslash B\textbackslash set}\texttt{\textbackslash P}

visual Invoke visual editor on a list of messages
write	Append messages to a file, don't include headers
xit	Same as \\/Bexit\/P
z	Scroll to next/previous screenful of headers
.TE
.TS
c
.b
.pp
The following table describes the options. Each option is shown as being either a binary or valued option.

<table>
<thead>
<tr>
<th>Option</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDITOR</td>
<td>valued</td>
<td>Pathname of editor for ~e and \fBedit\fP</td>
</tr>
<tr>
<td>LISTER</td>
<td>valued</td>
<td>Pathname of directory lister</td>
</tr>
<tr>
<td>MBOX</td>
<td>valued</td>
<td>Pathname of the \fImbox\fP file</td>
</tr>
<tr>
<td>PAGER</td>
<td>valued</td>
<td>Pathname of pager for \fBPrint\fP, \fBPrint\fP, \fBType\fP and \fBtype\fP</td>
</tr>
<tr>
<td>SHELL</td>
<td>valued</td>
<td>Pathname of shell for \fBshell\fP, ~! and \fB\fP</td>
</tr>
<tr>
<td>VISUAL</td>
<td>valued</td>
<td>Pathname of screen editor for ~v, \fBvisual\fP</td>
</tr>
<tr>
<td>append</td>
<td>binary</td>
<td>Always append messages to end of \fImbox\fP</td>
</tr>
<tr>
<td>ask</td>
<td>binary</td>
<td>Prompt user for Subject: field when sending</td>
</tr>
<tr>
<td>askbcc</td>
<td>binary</td>
<td>Prompt user for additional BCc's at end of message</td>
</tr>
<tr>
<td>askcc</td>
<td>binary</td>
<td>Prompt user for additional Cc's at end of message</td>
</tr>
<tr>
<td>autoinc</td>
<td>binary</td>
<td>Automatically incorporate new mail</td>
</tr>
<tr>
<td>autoprint</td>
<td>binary</td>
<td>Print next message after \fBdelete\fP</td>
</tr>
<tr>
<td>crt</td>
<td>valued</td>
<td>Minimum number of lines before using \fBPAGER\fP</td>
</tr>
<tr>
<td>debug</td>
<td>binary</td>
<td>Print out debugging information</td>
</tr>
<tr>
<td>dot</td>
<td>binary</td>
<td>Accept . alone on line to terminate message input</td>
</tr>
<tr>
<td>escape</td>
<td>valued</td>
<td>Escape character to be used instead of ~</td>
</tr>
<tr>
<td>folder</td>
<td>directory</td>
<td>Store folders in</td>
</tr>
<tr>
<td>hold</td>
<td>binary</td>
<td>Hold messages in system mailbox by default</td>
</tr>
<tr>
<td>ignore</td>
<td>binary</td>
<td>Ignore &lt;Control-C&gt; while sending mail</td>
</tr>
<tr>
<td>ignoreeof</td>
<td>binary</td>
<td>Don't terminate letters/command input with \fB^D\fP</td>
</tr>
<tr>
<td>indentprefix</td>
<td>valued</td>
<td>String used for indenting messages</td>
</tr>
<tr>
<td>keep</td>
<td>binary</td>
<td>Don't unlink system mailbox when empty</td>
</tr>
<tr>
<td>keepsave</td>
<td>binary</td>
<td>Don't delete \fBsave\fPd messages by default</td>
</tr>
<tr>
<td>metoo</td>
<td>binary</td>
<td>Include sending user in aliases</td>
</tr>
<tr>
<td>noheader</td>
<td>binary</td>
<td>Suppress initial printing of version and headers</td>
</tr>
<tr>
<td>nosave</td>
<td>binary</td>
<td>Don't save partial letter in \fIdead.letter\fP</td>
</tr>
<tr>
<td>Replyall</td>
<td>binary</td>
<td>Reverses the sense of the \fBF[Rr]eply\fP commands</td>
</tr>
<tr>
<td>quiet</td>
<td>binary</td>
<td>Suppress printing of \fIMail\fP version/message numbers</td>
</tr>
<tr>
<td>record</td>
<td>valued</td>
<td>File to save all outgoing mail in</td>
</tr>
<tr>
<td>screen</td>
<td>valued</td>
<td>Size of window of message headers for \fBz\fP, etc.</td>
</tr>
<tr>
<td>searchheaders</td>
<td>binary</td>
<td>Search string for message headers</td>
</tr>
<tr>
<td>sendmail</td>
<td>valued</td>
<td>Choose alternate mail delivery system</td>
</tr>
<tr>
<td>toplines</td>
<td>valued</td>
<td>Number of lines to print in \fBtop\fP</td>
</tr>
<tr>
<td>verbose</td>
<td>binary</td>
<td>Invoke sendmail with the \fB-v\fP flag</td>
</tr>
</tbody>
</table>
The following table summarizes the tilde escapes available while sending mail.

<table>
<thead>
<tr>
<th>Escape</th>
<th>Arguments</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>~b</td>
<td>name ...</td>
<td>Add names to &quot;blind&quot; Cc: list.</td>
</tr>
<tr>
<td>~c</td>
<td>name ...</td>
<td>Add names to Cc: field.</td>
</tr>
<tr>
<td>~d</td>
<td></td>
<td>Read \fIdead.letter\fP into message.</td>
</tr>
<tr>
<td>~e</td>
<td></td>
<td>Invoke text editor on partial message.</td>
</tr>
<tr>
<td>~F</td>
<td>messages</td>
<td>Same as ~f, but includes all headers.</td>
</tr>
<tr>
<td>~f</td>
<td>messages</td>
<td>Read in messages.</td>
</tr>
<tr>
<td>~h</td>
<td></td>
<td>Edit the header fields.</td>
</tr>
<tr>
<td>~M</td>
<td>messages</td>
<td>Same as ~m, but includes all headers.</td>
</tr>
<tr>
<td>~m</td>
<td>messages</td>
<td>Read in messages, right shifted by a tab.</td>
</tr>
<tr>
<td>~p</td>
<td></td>
<td>Print (show) the message buffer.</td>
</tr>
<tr>
<td>~q</td>
<td></td>
<td>Abort message; optionally save copy to ~/dead.letter.</td>
</tr>
<tr>
<td>~r</td>
<td>file</td>
<td>~&lt; file</td>
</tr>
<tr>
<td>~s</td>
<td>string</td>
<td>Set Subject: field to \fIstring\fP.</td>
</tr>
<tr>
<td>~t</td>
<td>name ...</td>
<td>Add names to To: field.</td>
</tr>
<tr>
<td>~v</td>
<td></td>
<td>Invoke display editor on message.</td>
</tr>
<tr>
<td>~w</td>
<td>filename</td>
<td>Write message to file.</td>
</tr>
<tr>
<td>~x</td>
<td></td>
<td>Abort message; no copy is saved.</td>
</tr>
<tr>
<td>~?</td>
<td></td>
<td>Print a brief summary of tilde escapes.</td>
</tr>
<tr>
<td>~!command</td>
<td></td>
<td>Execute shell command.</td>
</tr>
<tr>
<td>~</td>
<td>command</td>
<td></td>
</tr>
<tr>
<td>~:command</td>
<td>~command</td>
<td>Execute a \fIMail\fP command.</td>
</tr>
<tr>
<td>`string</td>
<td></td>
<td>Quote a single tilde.</td>
</tr>
<tr>
<td>.</td>
<td></td>
<td>Simulate end of file on input.</td>
</tr>
</tbody>
</table>

The following table shows the command line flags that \fIMail\fP accepts:

<table>
<thead>
<tr>
<th>Flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
\-b \fIlist\fP Send blind carbon copies to \fIlist\fP
\-c \fIlist\fP Send carbon copies to \fIlist\fP
\-d Turn on debugging
\-f [\fIfilename\fP] Show messages in \fIfilename\fP or \fI~/mbox\fP
\-I Force \fIMail\fP to run in interactive mode
\-I Ignore tty interrupt signals
\-N Suppress the initial printing of headers
\-n Inhibit reading of /etc/mail.rc
\-s \fIsubject\fP Use \fIsubject\fP as subject in outgoing mail
\-T \fIfile\fP Article-id's of read/deleted messages to \fIfile\fP
\-u \fIuser\fP Read \fIuser\fP's mail instead of your own
\-v Invoke sendmail with the \fB\-v\fP flag

Notes:
\-b \-d
and
\-b \-T
are not for human use.

"$OpenBSD: mail6.nr,v 1.6 2006/03/04 16:18:06 miod Exp $"
This section describes command line options for Mail and what they are used for.

Send blind carbon copies to list.

Send carbon copies to list of users. List should be a comma separated list of names.

Show the messages in file instead of your system mailbox. If file is omitted, Mail reads mbox in your home directory.

Forces mail to run in interactive mode, even when input is not a terminal. In particular, the special `~` command character, used when sending mail, is only available interactively.

Ignore tty interrupt signals. This is particularly useful when using mail on noisy phone lines.

Suppress the initial printing of headers.

Inhibit reading of /etc/mail.rc upon startup.

Used for sending mail. String is used as the subject of the message being composed. If string contains blanks, you must surround it with quote marks.

Read mail instead of your own. Unwitting others often neglect to protect their mailboxes, but discretion is advised. Essentially, is a shorthand way of doing

""
Use the `-v` flag when invoking sendmail. This feature may also be enabled by setting the option "verbose".

The following command line flags are also recognized, but are intended for use by programs invoking `mail`

and not for people.

Turn on debugging information. Not of general interest.

Arrange to print on the contents of the file fields of all messages that were either read or deleted.

is for the program and should NOT be used for reading your mail.
While typing in a message to be sent to others, it is often useful to be able to invoke the text editor on the partial message, print the message, execute a shell command, or do some other auxiliary function.

Mail provides these capabilities through "tilde escapes", which consist of a tilde (~) at the beginning of a line, followed by a single character which indicates the function to be performed. For example, to print the text of the message so far, use:

```
~p
```

which will print a line of dashes, the recipients of your message, and the text of the message so far.

Since Mail requires two consecutive <Control-C>'s to abort a letter, you can use a single <Control-C> to abort the output of ~p or any other ~ escape without killing your letter.

If you are dissatisfied with the message as it stands, you can invoke the text editor on it using the escape

```
~e
```

which causes the message to be copied into a temporary file and an instance of the editor to be spawned. After modifying the message to your satisfaction, write it out and quit the editor.

Mail will respond by typing

```
(continue)
```

after which you may continue typing text which will be appended to your message, or type <Control-D> to end the message.

A standard text editor is provided by Mail.
You can override this default by setting the valued option
q EDITOR
to something else. For example, you might prefer:
(l
set EDITOR=/bin/ed
)
.pp
Many systems offer a screen editor as an alternative to the standard
text editor, such as the
.i vi
editor from UC Berkeley,
or
.i mg,
an emacs-like editor.
To use the screen, or
.i visual
editor, on your current message, you can use the escape,
(l
~v
)
~v works like ~e, except that the screen editor is invoked instead.
A default screen editor is defined by
.i Mail.
If it does not suit you, you can set the valued option
.q VISUAL
to the path name of a different editor.
.pp
It is often useful to be able to include the contents of some
file in your message; the escape
(l
~r filename
)
is provided for this purpose, and causes the named file to be appended
to your current message.
.i Mail
complains if the file doesn't exist
or can't be read. If the read is successful, the number of lines and
characters appended to your message is printed, after which you may continue
appending text. The filename may contain shell metacharacters like * and ?
which are expanded according to the conventions of your shell.
.pp
As a special case of ~r, the escape
(l
~d
)
reads in the file
.q dead.letter
in your home directory. This is often useful since
Mail
copies the text
of your message there when you abort a message with <Control-C>.

To save the current text of your message on a file you may use the
.
~w filename
.

escape.
Mail
will print out the number of lines and characters written
to the file, after which you may continue appending text to your message.
Shell metacharacters may be used in the filename, as in ~r and are expanded
with the conventions of your shell.

If you are sending mail from within
Mail's
command mode
you can read a message sent to you into the message
you are constructing with the escape:
.
~m 4
.

which will read message 4 into the current message, shifted right by
one tab stop. You can name any non-deleted message, or list of messages.
Messages can also be forwarded without shifting by a tab stop with ~f.
This is the usual way to forward a message.

If, in the process of composing a message, you decide to add additional
people to the list of message recipients, you can do so with the escape
.
~t name1 name2 ...
.

You may name as few or many additional recipients as you wish. Note
that the users originally on the recipient list will still receive
the message; you cannot remove someone from the recipient
list with ~t.

If you wish, you can associate a subject with your message by using the
escape
.
~s Arbitrary string of text
.

which replaces any previous subject with
"Arbitrary string of text."
The subject, if given, is sent near the
top of the message prefixed with
"Subject:"
You can see what the message will look like by using -p.

For political reasons, one occasionally prefers to list certain people as recipients of carbon copies of a message rather than direct recipients. The escape

```
~c name1 name2 ...
```

adds the named people to the

```
Cc:
```
list, similar to ~t.
Again, you can execute ~p to see what the message will look like.

The escape

```
~b name1 name2 ...
```

adds the named people to the

```
Cc:
```
list, but does not make the names visible in the

```
Cc:
```
line ("blind" carbon copy).

The recipients of the message together constitute the

```
To:
```
field, the subject the

```
Subject:
```
field, and the carbon copies the

```
Cc:
```
field. If you wish to edit these in ways impossible with the ~t, ~s, ~c and ~b escapes, you can use the escape

```
~h
```
which prints

```
To:
```
followed by the current list of recipients and leaves the cursor (or printhead) at the end of the line. If you type in ordinary characters, they are appended to the end of the current list of recipients. You can also use your erase character to erase back into the list of recipients, or your kill character to erase them altogether. Thus, for example, if your erase and kill characters are the standard (on printing terminals) <Control-H> and <Control-U> keys,

```
~h
```
To: root kurt^H^H^H^Hbill

would change the initial recipients
When you type a newline, Mail advances to the "Subject:" field, where the same rules apply. Another newline brings you to the "Cc:" field, which may be edited in the same fashion. Another newline brings you to the "Bcc:" ("blind" carbon copy) field, which follows the same rules as the "Cc:" field. Another newline leaves you appending text to the end of your message. You can use ~p to print the current text of the header fields and the body of the message.

To effect a temporary escape to the shell, the escape ~!command is used, which executes command and returns you to mailing mode without altering the text of your message. If you wish, instead, to filter the body of your message through a shell command, then you can use ~|command which pipes your message through the command and uses the output as the new text of your message. If the command produces no output, Mail assumes that something is amiss and retains the old version of your message. A frequently-used filter is the command fmt, designed to format outgoing mail.

To effect a temporary escape to command mode instead, you can use the ~\fIMail command\fP escape. This is especially useful for retyping the message you are replying to, using, for example:
It is also useful for setting options and modifying aliases.

If you wish abort the current message, you can use the escape

This will terminate the current message and return you to the
shell (or \fIMail\fP if you were using the \fBmail\fP command).
If the \fBsave\fP option is set, the message will be copied
to the file

in your home directory.

If you wish to abort the current message,
without saving any copy of it whatsoever,
even if the \fBsave\fP option is set,
you can use the escape

If you wish (for some reason) to send a message that contains
a line beginning with a tilde, you must double it. Thus, for example,

sends the line

Finally, the escape

prints out a brief summary of the available tilde escapes.

On some terminals (particularly ones with no lower case)
tilde's are difficult to type.
\fIMail\fP allows you to change the escape character with the
\fQ escape
option. For example, I set

set escape=]
and use a right bracket instead of a tilde. If I ever need to
send a line beginning with right bracket, I double it, just as for ~.
Changing the escape character removes the special meaning of ~.

sh 2 "Network access"

This section describes how to send mail to people on other machines.
Recall that sending to a plain login name sends mail to that person
on your machine. If your machine is directly (or sometimes, even,
indirectly) connected to the Internet, you can send messages to people
on the Internet using a name of the form

(name@host.domain)

where
  .i name
is the login name of the person you're trying to reach,
  .i host
is the name of the machine on the Internet,
and
  .i domain
is the higher-level scope within which the hostname is known, e.g. EDU (for educational
institutions), COM (for commercial entities), GOV (for governmental agencies),
ARPA for many other things, BITNET or CSNET for those networks.

If your recipient logs in on a machine connected to yours by
UUCP (the Bell Laboratories supplied network that communicates
over telephone lines), sending mail can be a bit more complicated.
You must know the list of machines through which your message must
travel to arrive at his site. So, if his machine is directly connected
to yours, you can send mail to him using the syntax:

(host!name)

where, again,
  .i host
is the name of the machine and
  .i name
is the login name.
If your message must go through an intermediary machine first, you
must use the syntax:

(intermediary!host!name)

and so on. It is actually a feature of UUCP that the map of all
the systems in the network is not known anywhere (except where people
decide to write it down for convenience). Talk to your system administrator
about good ways to get places; the
  .i uuname
command will tell you systems whose names are recognized, but not which
ones are frequently called or well-connected.

When you use the
reply command to respond to a letter, there is a problem of figuring out the
names of the users in the
“To:”
and
“Cc:”
lists
"relative to the current machine".
If the original letter was sent to you by someone on the local machine,
then this problem does not exist, but if the message came from a remote
machine, the problem must be dealt with.

Mail uses a heuristic to build the correct name for each user relative
to the local machine. So, when you
reply to remote mail, the names in the
“To:”
and
“Cc:”
lists may change somewhat.

As described previously, you can send mail to either user names or
alias names. It is also possible to send messages directly to files or to
programs, using special conventions. If a recipient name has a
`/` in it or begins with a `+`, it is assumed to be the
path name of a file into which
to send the message. If the file already exists, the message is
appended to the end of the file. If you want to name a file in
your current directory (ie, one for which a `/` would not usually
be needed) you can precede the name with `/`
So, to send mail to the file
in the current directory, you can give the command:

```
% Mail ./memo
```

If the name begins with a `+`, it is expanded into the full path name
of the folder name in your folder directory.
This ability to send mail to files can be used for a variety of
purposes, such as maintaining a journal and keeping a record of
mail sent to a certain group of users. The second example can be
done automatically by including the full pathname of the record
file in the
.b alias
command for the group. Using our previous
.b alias
example, you might give the command:

(l
alias project sam sally steve susan /usr/project/mail_record
.)l

Then, all mail sent to "project" would be saved on the file
.q /usr/project/mail_record
as well as being sent to the members of the project. This file
can be examined using
.i "Mail \-f".

It is sometimes useful to send mail directly to a program, for
example one might write a project billboard program and want to access
it using
.i Mail.

To send messages to the billboard program, one can send mail
to the special name `|billboard' for example.
.i Mail
treats recipient names that begin with a `|' as a program to send
the mail to. An
.b alias
can be set up to reference a `|' prefaced name if desired.
.i Caveats:
the shell treats `|' specially, so it must be quoted on the command
line. Also, the `| program' must be presented as a single argument to
mail. The safest course is to surround the entire name with double
quotes. This also applies to usage in the
.b alias
command. For example, if we wanted to alias `rmsgs' to `rmsgs -s'
we would need to say:

(l
alias rmsgs "| rmsgs -s"
.)l

1.2943 drbd 8.9.10-2ubuntu0.1

1.2943.1 Available under license:

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<signature of Ty Coon>, 1 April 1989
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1.2944 xorm.io-builder 0.3.6

1.2944.1 Available under license:

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1.2945 gophercloud 0.3.0

1.2945.1 Available under license:

package RESOURCE

import (  
  "github.com/gophercloud/gophercloud"
  "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
\texttt{gophercloud.Result}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
Contributor Tutorial
====================
This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we’re very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).
Step 5: Writing the Code
========================
At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it’s time to write the actual code! We recommend reading over the [CONTRIBUTING](/github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/github/CONTRIBUTING.md#getting-started) section will
help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template)
as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're 
[testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.
Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
`shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.
Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and
proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab][](https://openlabtesting.org/) will run acceptance tests.

---
Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md)) for conventions used.
2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (  
"fmt"  
"net/http"  
"testing"  
"github.com/gophercloud/gophercloud/openstack/service/vN/resources"  
th "github.com/gophercloud/gophercloud/testhelper"  
"github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `  
  
// GetResult provides a Get result.
```
const GetResult = `}
``
``

// CreateRequest provides the input to a Create request.
const CreateRequest = `}
``
``
// UpdateRequest provides the input to a Update request.
const UpdateRequest = `}
``
``
// UpdateResult provides an update result.
const UpdateResult = `}
``
``
// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{
}
``
``
// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}
``
``
// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{
}
``
``
// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}
``
``
// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
  th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
    th.TestHeader(t, r, "Accept", "application/json")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    w.Header().Set("Content-Type", "application/json")
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, ListResult)
  })
}
``
// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, GetResult)
})
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "POST")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    th.TestJSONRequest(t, r, CreateRequest)
w.WriteHeader(http.StatusCreated)
    fmt.Fprintf(w, GetResult)
})
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "DELETE")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "PATCH")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    th.TestJSONRequest(t, r, UpdateRequest)
w.WriteHeader(http.StatusOK)
})
}
fmt.Fprintf(w, UpdateResult)
}

package RESOURCE

import {
  "github.com/gophercloud/gophercloud"
  "github.com/gophercloud/gophercloud/pagination"
}

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
  ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
  q, err := gophercloud.BuildQueryString(opts)
  return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
  url := listURL(client)
  if opts != nil {
    query, err := opts.ToResourceListQuery()
    if err != nil {
      return pagination.Pager{Err: err}
    }
    url += query
  }
    return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
  })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
  _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
  return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToResourceUpdateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}
// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    func TestListResources(t *testing.T) {
        th.SetupHTTP()
        defer th.TeardownHTTP()
        HandleListResourcesSuccessfully(t)

        count := 0
            count++
            actual, err := resources.ExtractResources(page)
            th.AssertNoErr(t, err)
            th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
            return true, nil
        })
        th.AssertNoErr(t, err)
        th.AssertEquals(t, count, 1)
    }

    func TestListResourcesAllPages(t *testing.T) {
        th.SetupHTTP()
        defer th.TeardownHTTP()
        HandleListResourcesSuccessfully(t)
allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
  th.AssertNoErr(t, err)
actual, err := resources.ExtractResources(allPages)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleGetResourceSuccessfully(t)

actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleCreateResourceSuccessfully(t)

createOpts := resources.CreateOpts{
  Name: "resource two",
}

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleDeleteResourceSuccessfully(t)

res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleUpdateResourceSuccessfully(t)

updateOpts := resources.UpdateOpts{
  Description: "Staging Resource",
}
actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

*/

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE
Step 4: Acceptance Testing
================================

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

Step 2: Create an Issue
========================

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug
---------------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749)
Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen
here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

_________________________

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go

```go
type Network struct {
    ID string `json:"id"
    Name string `json:"name"
    AdminStateUp bool `json:"admin_state_up"
    Status string `json:"status"
    Subnets []string `json:"subnets"
    TenantID string `json:"tenant_id"
    Shared bool `json:"shared"
}
```go```

```go
type Network struct {
    ID string `json:"id"
    Name string `json:"name"
    AdminStateUp bool `json:"admin_state_up"
    Status string `json:"status"
    Subnets []string `json:"subnets"
    TenantID string `json:"tenant_id"
    Shared bool `json:"shared"
}
```go```

AvailabilityZoneHints []string `json:"availability_zone_hints"

```go

```
We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* [https://github.com/gophercloud/gophercloud/issues/539](https://github.com/gophercloud/gophercloud/issues/539)
* [https://github.com/gophercloud/gophercloud/issues/555](https://github.com/gophercloud/gophercloud/issues/555)
* [https://github.com/gophercloud/gophercloud/issues/571](https://github.com/gophercloud/gophercloud/issues/571)
* [https://github.com/gophercloud/gophercloud/issues/583](https://github.com/gophercloud/gophercloud/issues/583)
* [https://github.com/gophercloud/gophercloud/issues/605](https://github.com/gophercloud/gophercloud/issues/605)

Code Hunting Tips

--------------
OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

**1.2946 iso-codes 3.79-1**

**1.2946.1 Available under license:**

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```

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=== src/compat.h src/compat-inl.h ===

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  './config/archs/BS-x86/asm/crypto/bn/co-586.s',
  './config/archs/BS-x86/asm/crypto/bn/x86-gf2m.s',
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'include_dirs': [ '.', '/include', '/crypto', '/crypto/include/internal', ]
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# SPDX-license-ids


A list of [SPDX license](https://spdx.org/licenses/) identifiers

## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```
"npm install spdx-license-ids"
```

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
```
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A. HISTORY OF THE SOFTWARE

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

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

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

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
=======================================================================
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This package is a JavaScript porting of `wcwidth()` implementation
[by Markus Kuhn](http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c).

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        `openssl/ssl/record/rec_layer_s3.c',
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    under certain conditions; type `show c' for details.

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

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'openssl/crypto/x509v3/v3_akeya.c',
'openssl/crypto/x509v3/v3_alt.c',
'openssl/crypto/x509v3/v3_assid.c',
'openssl/crypto/x509v3/v3_bcons.c',
'openssl/crypto/x509v3/v3_bitst.c',
'openssl/crypto/x509v3/v3_conf.c',
'openssl/crypto/x509v3/v3_epols.c',
'openssl/crypto/x509v3/v3_crlid.c',
'openssl/crypto/x509v3/v3_enum.c',
'openssl/crypto/x509v3/v3_extku.c',
'openssl/crypto/x509v3/v3_genn.c',
'openssl/crypto/x509v3/v3_ia5.c',
'openssl/crypto/x509v3/v3_info.c',
'openssl/crypto/x509v3/v3_int.c',
'openssl/crypto/x509v3/v3_lib.c',
'NDEBUG',
'L_ENDIAN',
'OPENSSL_PIC',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_MONT5',
'OPENSSL_BN_ASM_GF2m',
'SHA1_ASM',
'SHA256_ASM',
'SHA512_ASM',
'KECCAK1600_ASM',
'RC4_ASM',
'MD5_ASM',
'AESNI_ASM',
'VPAES_ASM',
'GHASH_ASM',
'ECNISTZ256_ASM',
'X25519_ASM',
'POLY1305_ASM',
],
'openssl_cflags_BSD-x86_64': [
'-Wa,--noexecstack',
'-Wall -O3',
'-pthread',
'-Wall -O3',
],
'openssl_ex_libs_BSD-x86_64': [
'-pthread',
],
'include_dirs': [
'./include',
'./crypto',
'./crypto/include/internal',
],
'defines': ['<@(openssl_defines_BSD-x86_64)]',
'cflags': ['<@(openssl_cflags_BSD-x86_64)]',
'libraries': ['<@(openssl_ex_libs_BSD-x86_64)]',
'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)]',
}
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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
````
var valid = require('validate-npm-package-license');
```javascript
SPDX license identifiers are valid license strings:
```
```javascript
SPDX license identifiers are valid license strings:
```
```javascript
var assert = require('assert');
var validSPDXExpression = {
validForNewPackages: true,
validForOldPackages: true,
spdx: true
};
assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```javascript
The function will return a warning and suggestion for nearly-correct license identifiers:
```
```javascript
The function will return a warning and suggestion for nearly-correct license identifiers:
```
```javascript
assert.deepEqual(valid('Apache 2.0'),
{
validForOldPackages: false,
validForNewPackages: false,
warnings: [
'license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
""UNLICENSED", or ' +
""SEE LICENSE IN <filename>"",
'license is similar to the valid expression "Apache-2.0"
]
}
```
```javascript
SPDX expressions are valid, too ...
```
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
valid('(GPL-3.0-only OR BSD-2-Clause)'),
validSPDXExpression
);
```javascript
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
valid('(GPL-3.0-only OR BSD-2-Clause)'),
validSPDXExpression
);
```javascript
... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
  ]};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);

``` javascript

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
valid('SEE LICENSE IN LICENSE.txt'),
{
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'LICENSE.txt'
}
);

assert.deepEqual(
valid('SEE LICENSE IN license.md'),
{
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'license.md'
}
);
```
If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

### 1.2952 python3-decorator 4.1.2-1

#### 1.2952.1 Available under license:

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1.2954 performance-now 2.1.0

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1.2955 webrick 1.4.2
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1.2957 scandir 1.10.0

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1.2958 libblockfile 1.14-1.1

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package cloud

import (
func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.
    })

    // Find license
    for _, sentinel := range sentinels {
        if !bytes.Contains(src, []byte(sentinel)) {
            t.Errorf("%v: license header not present. want %q", path, sentinel)
            return nil
        }
    }

    // ...
1.2960 pathtools 0.1.2
1.2960.1 Available under license:

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1.2962 pb 3.0.4

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1.2963 armon-go-metrics 0.0.0-20190430140413-ec5e00d3c878

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1.2964 request 2.88.2

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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.

```
$kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\<namespace>\`.

```
$kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```


1.2972 toml 0.3.1
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# Please keep the list sorted.

Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Nick Craig-Wood <nickcw@gmail.com>
Scott Van Woudenberg <scottvw@google.com>
Takashi Matsuo <tmatsuo@google.com>
Alex A. Skinner
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Contributors

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samuel A. Falvo II</td>
<td><a href="mailto:sam.falvo@rackspace.com">sam.falvo@rackspace.com</a></td>
</tr>
<tr>
<td>Glen Campbell</td>
<td><a href="mailto:glen.campbell@rackspace.com">glen.campbell@rackspace.com</a></td>
</tr>
<tr>
<td>Jesse Noller</td>
<td><a href="mailto:jesse.noller@rackspace.com">jesse.noller@rackspace.com</a></td>
</tr>
<tr>
<td>Jon Perritt</td>
<td><a href="mailto:jon.perritt@rackspace.com">jon.perritt@rackspace.com</a></td>
</tr>
<tr>
<td>Ash Wilson</td>
<td><a href="mailto:ash.wilson@rackspace.com">ash.wilson@rackspace.com</a></td>
</tr>
<tr>
<td>Jamie Hannaford</td>
<td><a href="mailto:jamie.hannaford@rackspace.com">jamie.hannaford@rackspace.com</a></td>
</tr>
<tr>
<td>Don Schenck</td>
<td><a href="mailto:don.schenck@rackspace.com">don.schenck@rackspace.com</a></td>
</tr>
<tr>
<td>Joe Topjian</td>
<td><a href="mailto:joe@topjian.net">joe@topjian.net</a></td>
</tr>
</tbody>
</table>

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http://www.apache.org/licenses/
want := []License{License{
    Key: String("mit"),
    Name: String("MIT"),
    URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `{"key":"mit","name"="MIT"}`)
    })

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`    
    Name *string `json:"name",omitempty`    
    URL  *string `json:"url",omitempty`    
    HTMLURL        *string `json:"html_url",omitempty`    
    Featured       *bool `json:"featured",omitempty`    
    Description    *string `json:"description",omitempty`    
    Category       *string `json:"category",omitempty`    
    Implementation *string `json:"implementation",omitempty`    
    Required       *[]string `json:"required",omitempty`    
    Permitted      *[]string `json:"permitted",omitempty`    
    Forbidden      *[]string `json:"forbidden",omitempty`    
    Body           *string `json:"body",omitempty`    
}

func (l License) String() string {    
    return Stringify(l)
}

// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {    
    req, err := s.client.NewRequest("GET", "licenses")    
    if err != nil {        
        return nil, nil, err
    }
    resp, err := s.client.Do(req)
    if err != nil {        
        return nil, nil, err
    }
    licenses := []License{}
    defer resp.Body.Close()
    for resp.StatusCode >= 300 {        
        data, err := ioutil.ReadAll(resp.Body)
        if err != nil {            
            return nil, nil, err
        }
        var link Link
        err = json.Unmarshal(data, &link)
        if err != nil {            
            return nil, nil, err
        }
        log.Printf("Link: %s\n", link.Links)
        link.Links = nil
        resp, err = s.client.NewRequest("GET", link.Links)
        if err != nil {            
            return nil, nil, err
        }
        resp, err = s.client.Do(resp)
        if err != nil {            
                return nil, nil, err
        }
    }
    json.NewDecoder(resp.Body).Decode(&licenses)
    return licenses, resp, nil
if err != nil {
    return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
    return nil, resp, err
}

return *licenses, resp, err

// Fetch extended metadata for one license.
// // GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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1.2989 toml 0.3.1

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1.0.7

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1.2991 sqlx 1.2.0

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1.3000 go-autorest-tracing 0.5.0

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1.3001 ruby 2.6.7

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SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

= Contributors to Ruby

The following list might be incomplete. Feel free to add your name if your
patch was accepted into Ruby.

== A

Ayumu AIZAWA (ayumin)
* committer

AKIYOSHI, Masamichi (akiyoshi)
* committer
* He had maintained the VMS support on 2003-2004.

Muhammad Ali
* wrote rdoc for Fiber

Minero Aoki (aamine)
* committer
* He is the maintainer of:
  * fileutils
  * net/http, net/https
  * net/pop
  * net/smtp
  * rac
  * ripper
  * strscan

Wakou Aoyama (wakou)
* committer
* He was the maintainer of some standard libraries.

Koji Arai
* committer

arton
* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.
* Wrote patches for win32ole, gc.c, tmpdir.rb

Sergey Avseyev
* Added IO#pread and IO#pwrite.

=== B

Daniel Berger
* a patch for irb
* documentation
* He wrote forwardable.rb

David Black (dblack)
* committer
* He is the maintainer of scanf

Ken Bloom
* a patch for REXML.
Oliver M. Bolzer
* a patch for soap

Alexey Borzenkov
* a patch for mkmf.rb

Evan Brodie
* a patch for documentation of Float#round

Richard Brown
* a patch for configure.in

Dirkjan Bussink
* a patch for date.rb

Daniel Bovensiepen
* documentation
* a patch for irb

== C

Brian Candler
* a patch for configure.in, net/telnet

keith cascio
* a patch for optparse.rb

Frederick Cheung
* a patch for test/ruby/test_symbol.rb

Christoph
* patches for set.rb

Sean Chittenden
* patches for net/http, cgi

William D. Clinger
* ruby_strtod is based on his paper.

== D

Ryan Davis (ryan)
* committer
* He wrote and is the maintainer of miniunit

Guy Decoux (ts)
* committer
Zach Dennis

Martin Duerst (duerst)
* committer
* M17N

Paul Duncan
* patches for rdoc

Alexander Dymo
* a patch for lib/benchmark.rb

== E

Yusuke Endoh (mame)
* committer
* He wrote and is the maintainer of base64 library (1.9)
* did much upon YARV compiler.

erlercw
* wrote Integer::gcd2

== F

Frank S.Fejes
* a patch for net/pop

Fundakowski Feldman
* a patch for process.c

Mauricio Fernandez
* patches for parse.y

David Flanagan (davidflanagan)
* committer
* M17N

Takeyuki Fujioka (xibbar)
* committer
* He is the maintainer of cgi/*

FUKUMOTO, Atsushi
* a patch for tracer.rb

Shota Fukumori (sorah)
* committer
* #4415 parallel unit/test
Tadayoshi Funaba (tafd)
* committer
* He wrote and is the maintainer of
  * date
  * parsedate (1.8)
* He ported rational.rb and complex.rb, which 1.8 contains, into rational.c and complex.c of 1.9.

== G

David M. Gay
* ruby_strtod

Florian Gilcher
* documentation

GOTOU, Kentaro (gotoken)
* committer
* He wrote benchmark.rb
* He is the maintainer of:
  * benchmark.rb
  * open3

GOTOU, Yuuzou (gotoyuzo)
* committer

James Edward Gray II (jeg2)
* committer
* He wrote the faster implementation of CSV and is the maintainer of csv.
* Wrote documentation for rdoc

== H

Phil Hagelberg
* patch for ruby-mode.el's documentation.

Kirk Haines (wyhaines)
* committer
* the maintainer of ruby_1_8_6 branch

Shinichiro Hamaji
* fixed memory leaks (marshal.c, string.c)

Shin-ichiro HARA
* the developer and the sysop of ruby-{dev,list,core,talk} archive.
  * a patch for numeric.c

Chris Heath (traumdeutung)
* a patch for proc.c
HIROKAWA Hisashi
* fixed socket/socket.c

Daniel Hob
* He wrote:
  * SMTP-TLS support for net/smtp.
  * POP3S support

Eric Hodel (drbrain)
* committer
* He is the maintainer of:
  * rdoc
  * ri
  * rubygems

Erik Hollensbe
* a patch for delegate.rb

Johan Holmberg
* a patch for dir.c
* documentation

Erik Huelsmann

Dae San Hwang
* built a continuous integration environment on OpenSolaris.

== I

Nobuhiro IMAI
* a patch for logger.rb

"incorporate"
* a patch for sprintf.c

Keiju Ishitsuka (keiju)
* committer
* He wrote and is the maintainer of:
  * cmath.rb (1.9)
  * complex.rb (1.8)
  * c2mmmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
* sync.rb
* shell/*
* thwait.rb
* tracer.rb

== J

Curtis Jackson
* missing/dup2.c

Alan Johnson
* a patch for net/ftp

Lyle Johnson
* patches for nkf, bigdecimal, numeric.c

== K

Yoshihiro Kambayashi
* a patch for enc/trans/single_byte.trans.
* He wrote supports for some encodings.

Yutaka Kanemoto
* patches for common.mk, AIX AF_INET6 support

Motoyuki Kasahara
* He wrote getoptlong.rb

Masahiro Kawato
* a patch for shellwords.rb

Wataru Kimura
* a patch for configure.in

Michael Klishin
* patch for make help.

Noritada Kobayashi
* a patch for optparse.rb

Shigeo Kobayashi (shigek)
* committer
* He is the maintainer of bigdecimal

KONISHI, Hiromasa (H_Konishi)
* committer
* He had maintained the bcc32 support in 2004.
Kornelius "murphy" Kalnbach
* documentation

K.Kosako (kosako)
* committer
* He wrote Oniguruma.

Takehiro Kubo
* patches for dl 64bit support.

== L

Marc-Andre Lafortune (marcandre)
* committer
* patches for hash.c, array.c, thread.c, enumc, string.c, range.c and rdoc documentation.

Hongli Lai
* improved pstore.rb
* patch for tool/file2lastrev.rb.

raspberry lemon
* a patch for webbrick/httpproxy.rb.

Christian Loew
* a patch for fileutils.rb

== M

Shugo Maeda (shugo)
* committer
* A system administrator of ruby-lang.org servers.
* He wrote and is the maintainer of:
  * monitor.rb
  * net/ftp
  * net/imap

Stephan Maka (mathew)
* documentation

Yukihiro Matsumoto (matz)
* Matz -- the founder, language designer of Ruby.
* committer
* Ruby itself, most of Ruby.
* He is the maintainer of:
  * singleton
  * timeout
  * gdbm
  * sdbm
Konrad Meyer
* documentation

Mib Software
* missing/vsnprintf.c

Todd C. Miller
* missing/strlcat.c
* missing/strlcpy.c

MIYASAKA, Masaru
* a patch for cgi.rb

Stefan Monnier
* regex.c was fixed with based on his Emacs21 patch.

Marcel Moolenaar
* patches for eval.c and gc.c.

moonwolf
* a patch for REXML, xmlrpc

Hiroshi Moriyama
* a patch for yaml.

Kyosuke Morohashi
* a patch for gem_prelude.rb

Kenta Murata
* patches for json, bignum.c

Akinori MUSHA (knu)
* committer
* He wrote and is the maintainer of:
  * abbrev.rb
  * generator (1.8)
  * enumerator (1.8)
  * set
  * ipaddr.rb
  * digest/*
  * syslog
* He is the branch maintainer of ruby_1_8, the release manager of 1.8 series.

== N

Hidetoshi NAGAI (nagai)
* committer
* He is the maintainer of tk/*

Nobuyoshi Nakada (nobu)
* committer
* a.k.a. the “patch monster”
* He wrote and is the maintainer of:
  * optparse
  * stringio
  * io/wait
  * iconv

Satoshi Nakagawa
* patches for util.c

Narihiro Nakamura (nari)
* committer
* a.k.a. authorNari
* working at GC

NAKAMURA, Hiroshi (nahi)
* committer
* He is the maintainer of:
  * csv.rb (1.8)
  * logger.rb
  * soap/* (1.8)
  * wsdl/* (1.8)
  * xsd/* (1.8)

NAKAMURA, Usaku (usa)
* committer
* a.k.a. unak
* He is the maintainer of mswin32 and mswin64 support.

NARUSE, Yui (naruse)
* committer
* a.k.a. "nurse"
* Did much upon m17n.
* He is the maintainer of:
  * json
  * nkf

Christian Neukirchen
* a patch for webrick/httputils

Michael Neumann (mneumann)
* committer
* He is the maintainer of
  * xmlrpc (1.8)
* gserver (1.8)

NISHIO Hirokazu
* wrote a patch for CVE-2010-0541

Kazuhiko NISHIYAMA (kazu)
* committer
* a.k.a. znz

Go Noguchi

Martin Nordholts
* misc/rdebug.el

nmu
* a patch for socket

== O

okkez
* He is a sysop of the Ruby Reference Manual Renewal Project.
* fixed ipaddr.rb, ext/etc

Haruhiko Okumura
* some of missing/* is based on his book:
  * missing/erf.c
  * missing/lgamma_r.c
  * missing/tgamma.c

OMAE, jun
* a patch for debug.rb

Eugene Ossintsev
* documentation

== P

Heesob Park
* a patch for win32/win32.c.

pegacorn
* a patch for instruby.rb

== Q

== R

Gaston Ramos
* documentation

The Regents of the University of California
* missing/crypt.c
* missing/vsnprintf.c

Sam Roberts
* patch for socket
* documentation

Michal Rokos (michal)
* committer
* He was the maintainer of DJGPP support.

rubikitch
* a patch for io.c

Marcus Rueckert
* a patch for mkconfig.rb.

Run Paint Run Run
* patch for enc/unicode.c
* documentation

Sean Russell (ser)
* committer
* He wrote and is the maintainer of REXML.

== S

Kazuo Saito (ksaito)
* committer
* M17N

Tadashi Saito
* patches for test/ruby/test_math.rb, thread_*.c, bignum.c
* working upon BigDecimal.
* did much upon documentation

Masahiro Sakai
* a patch for io.c

Laurent Sansonetti
* a patch for tool/ytab.sed

Jeff Saracco
* documentation
Koichi Sasada (ko1)
* committer
* He wrote YARV.

Hugh Sasse
* a patch for net/http
* documentation

Charlie Savage
* a patch for win32/Makefile.sub

Michael Scholz
* a patch for ruby-mode.el

Arthur Schreiber
* patch for net/http and rdoc.

Masatoshi SEKI (seki)
* committer
* He wrote and is the maintainer of:
  * drb/*
  * erb
  * rinda

Roman Shterenzon
* a patch for open-uri.

Kent Sibilev

Gavin Sinclair (gsinclair)
* committer

John W. Small
* He wrote gserver.rb

Yuki Sonoda (yugui)
* committer
* She is the maintainer of man/* manual pages and is the release manager of 1.9 series.
* She wrote prime.rb.
* A developer and a sysop of redmine.ruby-lang.org.

SOUMA, Yutaka
* a patch for pack.c.

Tatsuki Sugiura
* WebDAV support for net/http

Masaki Suketa (suke)
* committer
  * He is the maintainer of win32ole

sheepman
* patches for ruby.c, thread.c, stringio, enum.c, webrick, net/http

Siena. (siena)
* committer

Kirill A. Shutemov
* a patch for parse.y

Darren Smith
* a patch for golf_prelude.rb

Richard M. Stallman
* missing/aloca.c

Robin Stocker
* documentation

Joshua Stowers
* a patch for array.c

Marcus Stollsteimer (stomar)
* committer
  * a maintainer of www.ruby-lang.org
  * patches for cgi (HTML5 tag maker), numeric.c, bigdecimal, ostruct.rb, prime.rb, and others
  * documentation

Adam Strzelecki
* a patch for compile.c

Masashi Sumi
* improved net/pop.rb

Eric Sunshine
* NeXT OpenStep, Rhapsody support

Kouhei Sutou (kou)
* committer
  * He wrote and is the maintainer of rss/*

David Symonds
* documentation

== T
TAKANO Mitsuhiro (takano32)
* committer
* He is the maintainer of IA-64 support.
* BigDecimal

TAKAO, Kouji (kouji)
* committer
* He is the maintainer of readline.

Nathaniel Talbott (ntalbott)
* committer
* He was the maintainer of test/unit, runit, rubyunit.

TANAKA, Akira (akr)
* committer
* Did much upon m17n.
* And he is the maintainer of:
  * open-uri
  * pathname
  * pp
  * resolv-replace
  * resolv
  * time
  * tsort

Takaaki Tateishi (ttate)
* committer
* He was the maintainer of dl

Technorama Ltd. (technoroma)
* committer
* openssl

Andrew Thompson
* a patch for socket.c IRIX support.

Dave Thomas (dave)
* committer
* a.k.a. the Pragmatic Programmer.
* He wrote rdoc.

Tietew
* patches for win32 support

Masahiro Tomita
* a patch for cgi.rb

Jakub Travnik
* a patch for eval.c

Tom Truscott
* missing/crypt.c

== U

UEDA, Satoshi
* a patch for uri

Takaaki Uematsu (uema2)
* committer
* He was the maintainer of WinCE support.

UENO, Katsuhiro (katsu)
* committer
* He is the maintainer of zlib

Hajimu UMEMOTO
* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)
* committer
* a.k.a. mput.
* He is the branch maintainer of ruby_1_8_6 and ruby_1_8_7
* and is the release manager of 1.8.x-pXXX.

== V

Joel VanderWerf
* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen

== W

wanabe (wanabe)
* committer
* fixed YARV and Oniguruma.

Chun Wang
* a patch for time.rb

WATANABE, Hirofumi (eban)
* committer
* He is the maintainer of
* ftools (1.8)
* tmpdir
* un
* Win32API

WATANABE, Tetsuya
* a patch for ruby.c

William Webber (wew)
* committer

Jim Weirich (jim)
* committer
* He wrote Rake.

Nathan Weizenbaum
* fixed misc/ruby-mode.el.

why the lukky stiff (why)
* committer
* He is the maintainer of syck

Caley Woods
* documentation

Gary Wright
* documentation

== X

== Y

Akira Yamada (akira)
* committer
* He is the maintainer of ruby related packages at Debian project.

Keita Yamaguchi
* patches for enum.c, parse.y
* documentation

Hirokazu Yamamoto (ocean)
* committer

Hirotaka Yoshioka
* a patch for improving SEGV handling

== Z
Aristarkh A Zagorodnikov
* a patch for io.c

Alexander Zavorine
* committer
* He is the maintainer for Symbian OS.

Chiyuan Zhang
* a patch for misc/ruby-mode.el.

Dee Zsombor (zunda)
* a patch for thread_pthread.c

Dan Zwell
* a patch for net/pop
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regparse.c::
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>>> 
A C-program for MT19937, with initialization improved 2002/2/10. 
Coded by Takuji Nishimura and Makoto Matsumoto. 
This is a faster version by taking Shawn Cokus's optimization, 
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed) 
or init_by_array(init_key, key_length).

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vm_dump.c:procstat_vm::

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missing/finite.c::
missing/hypot.c::
missing/isinf.c::
missing/isnan.c::
missing/lgamma_r.c::
missing/memcmp.c::
missing/memmove.c::
missing/strchr.c::
missing/strerror.c::
missing/strstr.c::
missing/tgamma.c::
ext/date/date_strftime.c::
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.3008 deep-eql 3.0.1

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1.3009 wireguard-wgctrl 0.0.0-20200324154536-ceff61240acf

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1.3011 go-autorest v0.5.0

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1.3012 google-go-cmp 0.5.0

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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccooleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dshultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodlea@gmail.com>
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Walter Schulze <awalterschulze@gmail.com>

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1.3017 dosfs-tools 4.1 1

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(This file is under construction.)-^-- text -^--

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
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Dean Elsner wrote the original gas for vax. [more details?]

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30). 
H.J. Lu has contributed many patches and much testing.

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

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

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Version 3, 29 June 2007

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

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

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

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

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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 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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>  
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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!

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Preamble

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it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

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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 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.

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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.

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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
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linked without the Library, or if the work is itself a library. The
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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.

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.

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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* @version 3.0 (December 2000)

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

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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1.3037 crewjam-saml 0.4.6-0.20201227203850-bca570abb2ce

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1.3038 mime 1.6.0

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1.3039 pquerna-cachecontrol 0.0.0-20180306154005-525d0eb5f91d

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1.3041 google-go-cmp 0.5.2

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1.3045 python-idna 2.6 1
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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/main/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```bash
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

#### require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true
ids.includes('GPL-3.0'); //=> false
```

#### require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]
deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
deprecatedIds.includes('GPL-3.0'); //=> true
```
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### 1.3047 influxdb v0.0.0-20190102202943-dd481f35df2c

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### 1.3048 npm-init 0.0.0

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1.3050 kubernetes-klog 2.8.0
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1.3051 geo 0.0.0-20190916061304-5b978397cfec

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1.3054 pupa 2.1.1

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Written by: Philip Hazel
Email local part: ph10
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Date: Fri, 6 Jun 2003 10:18:52 -0700
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To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
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John Shahid <jvshahid@gmail.com>
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1.3073 selinux 2.7-2build2
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http://userspace.selinuxproject.org/trac/wiki/Releases

This package was debianized by Colin Walters <walters@debian.org> on
Thu, 3 Jul 2003 17:10:57 -0400.

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1.3074 xorm.io-xorm 0.8.1
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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package engine
import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }{
        // Errors
        formatter.Context{Format: "{{InvalidFunction}}"},
        "Template parsing error: template: :1: function "InvalidFunction" not defined",
        _,
        formatter.Context{Format: "{{nil}}"},
        "Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command",
        _,
        // Table format
        formatter.Context{Format: NewSubscriptionsFormat("table", false)},
        "1: License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
        2: License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01",
        _,
        formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
        "OWNER
        owner1
        owner2",
        _,
        formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
// Raw Format
{
  `license: id1
   name: name1
   owner: owner1
   components: compstring

   license: id2
   name: name2
   owner: owner2
   components: compstring

},
{
formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
  `license: id1
  license: id2
  `,
},
// Custom Format
{
formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
  `owner1
  owner2`,
},

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
  subscriptions := []licenseutils.LicenseDisplay{
    {
      Num: 1,
      Owner: "owner1",
      Subscription: model.Subscription{
        ID:  "id1",
        Name:  "name1",
        ProductID: "productid1",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
out := &bytes.Buffer{} 

testcase.context.Output = out 

er := SubscriptionsWrite(testcase.context, subscriptions) 

if err != nil 
{ 
assert.Error(t, err, testcase.expected) 
} else 
{ 
assert.Check(t, is.Equal(testcase.expected, out.String())) 
}

func TestSubscriptionContextWriteJSON(t *testing.T) 
{ 
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC") 

subscriptions := []licenseutils.LicenseDisplay{ 
{ 
Num: 1, 
Owner: "owner1", 
Subscription: model.Subscription{ 
ID: "id1", 
Name: "name1", 
ProductID: "productid1", 
Expires: &expiration, 
PricingComponents: model.PricingComponents{ 
&model.SubscriptionPricingComponent{ 
Name: "nodes", 
Value: 10, 
}, 
}, 
ComponentsString: "compstring", 
}, 
}
```go
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
  Name:  "nodes",
  Value: 10,
},
},
ComponentsString: "compstring",
}
Num: 2,
Owner:  "owner2",
Subscription: model.Subscription{
  ID:        "id2",
  Name:      "name2",
  ProductID: "productid2",
  Expires:   &expiration,
  PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
    Name:  "nodes",
    Value: 20,
  },
  },
ComponentsString: "compstring",
}
}
expectedJSONs := []map[string]interface{}{
{
  "Owner":    "owner1",
  "ComponentsString": "compstring",
  "Expires":   "2020-01-01T10:00:00Z",
  "DockerID":  "",
  "Eusa":      nil,
  "ID":       "id1",
  "Start":    nil,
  "Name":     "name1",
  "Num":      float64(1),
  "PricingComponents": []interface{}{
    map[string]interface{}{
      "name":  "nodes",
      "value": float64(10),
    },
  },
  "ProductID": "productid1",
  "ProductRatePlan": "",
  "ProductRatePlanID": "",
  "State":      "",
```
"Summary": "License Name: name1
Quantity: 10 nodes
Expiration date: 2020-01-01",
}
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
"Start": nil,
"Name": "name2",
"Num": float64(2),
"PricingComponents": []interface{}
map[string]interface{}
"name": "nodes",
"value": float64(20),
},
{
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01",
}
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var s string
    if err := json.Unmarshal([]byte(line), &s); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
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package engine

import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (
    defaultSubscriptionsTableFormat = "table
        {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
    numHeader               = "NUM"
    ownerHeader             = "OWNER"
    licenseNameHeader       = "NAME"
    idHeader                = "ID"
    dockerIDHeader          = "DOCKER ID"
    productIDHeader         = "PRODUCT ID"
    productRatePlanHeader   = "PRODUCT RATE PLAN"
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
    startHeader             = "START"
    expiresHeader           = "EXPIRES"
    stateHeader             = "STATE"
    eusaHeader              = "EUSA"
    pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }

    }
// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
render := func(format func(subContext formatter.SubContext) error) error {
for _, sub := range subs {
licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
if err := format(licenseCtx); err != nil {
return err
}
}
return nil
}
licenseCtx := licenseContext{}
licenseCtx.Header = map[string]string{
"Num":               numHeader,
"Owner":             ownerHeader,
"Name":              licenseNameHeader,
"ID":                idHeader,
"DockerID":          dockerIDHeader,
"ProductID":         productIDHeader,
"ProductRatePlan":   productRatePlanHeader,
"ProductRatePlanID": productRatePlanIDHeader,
"Start":             startHeader,
"Expires":           expiresHeader,
"State":             stateHeader,
"Eusa":              eusaHeader,
"ComponentsString":  pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
formatter.HeaderContext
trunc bool
l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
return c.l.Num
}
func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}
func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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package licensing

import (  
  "context"  
  "crypto/hmac"  
  "crypto/sha256"  
  "encoding/base64"  
  "encoding/json"  
  "fmt"  
)
func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
return nil, errors.WithStack(err).With(errors.Fields{
  "key_id": keyID,
})

key := keys[0]

if !c.recognizedSigningKey(key) {
return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
}, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
}, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
return nil, errors.Wrap(err, errors.Fields{
  "key_id": keyID,
})
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
for _, publicKey := range c.publicKeys {
if key.KeyID() == publicKey.KeyID() {
  return true
}
}
return false
// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token
        })
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": generatedToken
        })
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": generatedBytes
        })
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{
            "token": token, "invalid token"
        })
    }
    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{
            "msg": message
        })
    }
    return hmac.Generate(message, key)
h := hmac.New(sha256.New, key)
h.Write([]byte(message))
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.  
//
// type CheckResponse struct {
Expiration  time.Time `json:"expiration"
Token     string  `json:"token"
MaxEngines int     `json:"maxEngines"
ScanningEnabled bool   `json:"scanningEnabled"
Type      string  `json:"licenseType"
Tier      string  `json:"tier"
}

// IssuedLicense represents an issued license
//
// type IssuedLicense struct {
KeyID     string `json:"key_id"
PrivateKey string `json:"private_key"
Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
//
// func (l *IssuedLicense) Valid() (bool, string) {
// if l.KeyID == "" { return false, "empty key_id"
// }
// if l.PrivateKey == "" { return false, "empty private_key"
// }
// if l.Authorization == "" { return false, "empty authorization"
// }
// return true, ""
// }

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# Names should be added to this file like so:
# Name <email address>

# Please keep the list sorted.

Damian Gryski <dgryski@gmail.com>
Jan Mercl <0xjnml@gmail.com>
Jonathan Swinney <jswinney@amazon.com>
Kai Backman <kaib@golang.org>
Klaus Post <klauspost@gmail.com>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Russ Cox <rsc@golang.org>
Sebastien Binet <seb.binet@gmail.com>

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1.3083 go-runtime 1.15.2

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# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <spwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollolouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <acciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <spphproger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed Wahed <oneofone@gmail.com>
Ahmet Alp Balkan <ahmetb@google.com>
Ahmet Soormally <ahmet@mangomm.co.uk>
Ahmy Yulrizka <yulrizka@gmail.com>
Ahsun Ahmed <ahmed.ahsun@gmail.com>
Aiden Scandella <ai@uber.com>
Ainar Garipov <gugl.zadolbal@gmail.com>
Aishraj Dahal <aishraj@users.noreply.github.com>
Akihiko Indurti <aindurti@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Al Cutter <al@google.com>
Alan Braithwaite <alan@ipaddr.org>
Alan Donovan <adonovan@gmail.com>
Alan Shreve <alan@inconshreveable.com>
Albert Nigmatzianov <albertnigma@gmail.com>
Albert Strasheim <fullung@gmail.com>
Albert Teoh <albert.teoh@gmail.com>
Albert Yu <yukinying@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcihierro@gmail.com>
Alec Benzer <alec.benzer@gmail.com>
Aleksa Sarai <cyphar@cyphar.com>
Aleksandar Dezelin <dezelin@gmail.com>
Aleksandr Lukinykh <a.lukinykh@xsolla.com>
Aleksandr Razumov <ar@cydev.ru>
Alekseev Artem <a.artem060@gmail.com>
Alessandro Arzilli <alessandro.arzilli@gmail.com>
Alessandro Baffa <alessandro.baffa@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alex.brainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Browne <stephenalexbrowne@gmail.com>
Alex Buchanan <buchanae@gmail.com>
Alex Carol <alex.carol.c@gmail.com>
Alex Gaynor <alex@alloy.us>
Alex Harford <alex.harford@saucelabs.com>
Alex Jin <toalexjin@gmail.com>
Alex Kohler <alejandrohler@gmail.com>
Alex Myasoedov <msoedov@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Tokarev <aleksator@gmail.com>
Alex Vaghin <crhyme@gmail.com>
Alex Zhirov <azhirov@gmail.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexd.ch>
Alexander F Rdseth <alexander.rodseth@appeartv.com>
Alexander Greim <alexxx@iltempo.de>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Lourier <anil@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Nohe <alex.nohe427@gmail.com>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@google.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandreviau.net>
Alexandru Mooi <brtznr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalexand@google.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Naidonov <alexeysaid@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexey Semenyuk <alexseme@gmail.com>
Alexis Hildebrandt <surryhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@google.com>
Ali Farooq <ali.farooq@pm.me>
Ali Rizvi-Santiago <arizvisa@gmail.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Allan Simon <allan.simon@supinfo.com>
Allen Li <ayatane@gmail.com>
Alok Menghrajani <alok.menghrajani@gmail.com>
Aman Gupta <aman@tm1.net>
Amarjeet Anand <amarjeetanand@gmail.com>
Amir Mohammad Saied <amir@glugadget.com>
Amr Mohammed <merodiro@gmail.com>
Amrut Joshi <amrut.joshi@gmail.com>
An Long <aisk1988@gmail.com>
Araragi Hokuto <kanseihonbucho@protonmail.com>
Arash Bina <arash@arash.io>
Arda Gl <ardaguclu@gmail.com>
Areski Belaid <areski@gmail.com>
Ariel Mashraki <ariel@mashraki.co.il>
Arkadi Pyuro <arkadi@google.com>
Arlo Breault <arlolra@gmail.com>
Arnaud Ysmal <arnaud.ysmal@gmail.com>
Arne Hormann <arnehormann@gmail.com>
Arnout Engelen <arnout@bztt.net>
Arnon Nopanen <aron.nopanen@gmail.com>
Artem Alekseev <artem.alekseev@intel.com>
Artem Kolin <artemkaxboy@gmail.com>
Arthur Fabre <arthur@arthurfabre.com>
Arthur Khashaev <arthur@khashaev.ru>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvind Rajesh Tamilmani <art@a-30.net>
Ashish Gandhi <ag@ashishgandhi.org>
Asim Shankar <asimshankar@gmail.com>
Atin Malaviya <amalaviy@akamai.com>
Ato Araki <ato.araki@gmail.com>
Audrey Lim <audreylh@gmail.com>
Audrius Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Varialis <varialis@gmail.com>
Aurlien Rainone <aurelien.rainone@gmail.com>
Aurlio A. Heckert <aurium@gmail.com>
Austin Clements <austin@google.com> <aclements@csail.mit.edu>
Avi Flax <avi@timehop.com>
awaw fumin <awawfumin@gmail.com>
Awn Umar <awn@cryptolosophy.io>
Axel Wagner <axel.wagner.hh@googlemail.com>
Ayan George <ayan@ayan.net>
Ayanamist Yang <ayanamist@gmail.com>
Ayke van Laethem <aykevanlaethem@gmail.com>
Aymerick Jhanne <aymerick@jehanne.org>
Azat Kaumov <kaumov.a.r@gmail.com>
Baiju Muthukadan <baiju.m.mail@gmail.com>
Balaram Makam <bmakam.qdt@qualcommdatacenter.com>
Balazs Lecz <leczb@gmail.com>
Baokun Lee <nototon@gmail.com>
Barnaby Keene <accounts@southcla.ws>
Bartosz Grzybowski <melkorm@gmail.com>
Bartosz Oler <bbrtsz@gmail.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Carlo Alberto Ferraris <cafxx@strayorange.com>
Carlos Amedee <carlos@golang.org>
Carlos Castillo <cookieo9@gmail.com>
Carlos Cirello <uldericofilho@gmail.com>
Carlos Eduardo <me@carlosedp.com>
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>
Carlos Iriarte <ciriarte@gmail.com>
Carlos Souza <carloshsouza@gmail.com>
Carolyn Van Slyck <me@carolyvnanslyck.com>
Carrie Bynon <cbynon@gmail.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Callendrello <squeed@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <cnicutar@google.com>
Catalin Patulea <catalinp@google.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
Chad Rosier <mrosier.qdt@qualcommdatacenter.com>
ChaiShushan <chaishushan@gmail.com>
Changkun Ou <hi@changkun.us>
Channing Kimble-Brown <channing@golang.org>
Chao Xu <xuchao.google.com>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <eldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill.google.com>
Chauncy Cullitan <chauncyc@gmail.com>
Chen Zhihan <energiehund@gmail.com>
Cherry Zhang <cherryyz@gmail.com>
Chew Choon Keat <choonkeat@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@jp.google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Le Roy <brompwnie@users.noreply.github.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymond <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darren Grant <darren.e.grant@gmail.com>
Darren McCleary <darren.rmc@gmail.com>
Darshan Parajuli <parajulidarshan@gmail.com>
Datong Sun <dndx@idndx.com>
Dave Borowitz <dborowitz@gmail.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djday@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Russell <forfuncakes@gmail.com>
David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@gmail.com>
David Bond <davidbond93@gmail.com>
David Brophy <dave@brophy.uk>
David Brigin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Carlier <devnexen@gmail.com>
David Carter <fresco.raj@gmail.com>
David Chase <drchase@gmail.com>
David Covert <davidcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com>
David du Colombier <dintro@gmail.com>
David Finkel <david.finkel@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Golden <david@autopragmatic.com>
David Heuschmann <heuschmann.d@gmail.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Jones <dxjones@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@google.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <davidsymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
Frederik Zipp <fzipp@gmx.de>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>
Frits van Bommel <fvbommel@gmail.com>
Fujimoto Kyosuke <kyoro.f@gmail.com>
Fumitoshi Ukai <ukai@google.com>
G. Hussain Chinoy <ghchinoy@gmail.com>
Gaal Yahas <gaal@google.com>
Gabriel Arthr Pthursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Guzman <gabe.guzman@gmail.com>
Gabriel Nelle <tehsphinx@web.de>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Rosenhouse <rosenhouse@gmail.com>
Gabriel Russell <gabriel.russell@gmail.com>
Gareth Paul Jones <gpj@foursquare.com>
Garret Kelly <gdk@google.com>
Garrick Evans <garrick@gmail.com>
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>
Gary Elliott <garyelliott@gmail.com>
Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Gauthier Jolly <gauthier.jolly@gmail.com>
Gawen Arab <gawen.arab@c.zen.ly>
Geert-Johan Riemer <gjr19912@gmail.com>
Genevieve Luyt <genevieve.luyt@gmail.com>
Gengliang Wang <ltnwg1@gmail.com>
Geoff Berry <gberry.qdt@qualcommdatcenter.com>
Geoffroy Lorieux <lorieux.g@gmail.com>
Geon Kim <geon0250@gmail.com>
Georg Reinke <guelfey@gmail.com>
George Gkirtsou <ggkirtsou@gmail.com>
George Hartzell <hartzell@alerce.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gergely Brautigam <skarlso777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
Gert Cuykens <gert.cuykens@gmail.com>
Getulio Snechez <valentin2507@gmail.com>
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>
Gianguido Sora` <g.sora4@gmail.com>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @aca (50316549) <acadx0@gmail.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
GitHub User @andig (184815) <cpuidle@gmx.de>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.utf8@gmail.com>
GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <aditza8@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cch123 (384546) <buaua.cch@gmail.com>
GitHub User @chainhelen (7046329) <chainhelen@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @cnecal (23520240) <flycalvin@qq.com>
GitHub User @DQNEO (188741) <dqneo@gmail.com>
GitHub User @Dreamacro (8615343) <chuainian@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @fatedier (7346661) <fatedier@gmail.com>
GitHub User @frenkie (6499251) <mail@rhab.de>
GitHub User @geedchin (11672310) <geedchin@gmail.com>
GitHub User @GrigoriyMikhalkin (3637857) <grigoriymikhalkin@gmail.com>
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jinmiaoluo (39730824) <jinmiaoluo@icloud.com>
GitHub User @jopbrown (6345470) <mssshane2008@gmail.com>
GitHub User @kazyshr (30496953) <kazyst@0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @mailalex (10195391) <code@bit48.net>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micnncim (21333876) <micnncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @nu50218 (40682920) <nui11@i cloud.com>
GitHub User @OlgaVPetrova (44112727) <OVVPetrova@gmail.com>
GitHub User @pityonline (438222) <spitonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @sairunreddy (21041941) <sairunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @skanekira (7888591) <sho19921005@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuunnh (1298735) <yuunnh415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <ggr493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezd0+github@gmail.com>
Greg Thelen <gthelen@gmail.com>
Greg Ward <greg@gerg.ca>
Gregoire Delatte <gregoire.delatte@gmail.com>
Gregory Man <man.gregory@gmail.com>
Gregory Petrosyapn <gregory.petrosyan@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guillaume J. Charmes <guillaume.charmes.net>
Gnther Noack <gnoack@gmail.com>
Guobiao Mei <meiguobiao@gmail.com>
Guoliang Wang <siamwgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavofranco@gmail.com>
Gustavo Niemeyer <gustavoniemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwen.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@gmail.com>
HAMANO Tsukasa <hamano@osstech.co.jp>
Han-Wen Nienhuys <hanwen@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Lehhardt <jan@apache.org>
Jan Mercl <0xjnml@gmail.com> <befelempeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Pilzer <jan.pilzer@gmx.de>
Jan Steinke <jan.steinke@gmail.com>
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jannis Andrija Schnitzer <jannis@schnitzer.im>
Jared Allard <jaredallard@users.noreply.github.com>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason A. Donenfeld <Jason@zx2c4.com>
Jason Baker <jason-baker@users.noreply.github.com>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jbuberel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delpontej@gmail.com>
Jason Hall <jasonhall@gmail.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wangsadinata <jwangsadinata@gmail.com>
Javier Kohon <jkohen@google.com>
Javier Revillas <jrevillas@massivedynamic.io>
Javier Segura <javism@gmail.com>
Jay Conrod <jayconrod@gmail.com>
Jay Taylor <outtatime@gmail.com>
Jay Weisskopf <jay@jayschwa.net>
Jean de Klerk <deklerk@gmail.com>
Jean-André Santoni <jean.andre.santoni@gmail.com>
Jean-Francois Bustarret <jf@bustarret.com>
Jean-Francois Cantin <jfcantin@gmail.com>
Jean-Marc Eurin <jmeurin@google.com>
Jean-Nicolas Moal <jn.moal@gmail.com>
Jed Denlea <jed@fastly.com>
Jdrzej Szczepaniak <jbszczepaniak@gmail.com>
Jeet Parekh <jeetparekh96@gmail.com>
Jeevanandam M <jeeva@myjeeva.com>
Jeff (Zhefu) Jiang <jeffjiang@gmail.com>
Jeff Craig <jeffcraig@gmail.com>
Jeff Dupont <jeff.dupont@gmail.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jrjohnson@google.com>
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeffrey H <jeffreyh192@gmail.com>
Jelte Fennema <github-tech@jeltef.nl>
Jens Frederich <jf Frederich@gmail.com>
Jeremiah Harmsen <jeremiah@google.com>
Jeremy Banks <_@Jeremy.ca>
Jeremy Canady <jcanady@gmail.com>
Jeremy Faller <jeremy@golang.org>
Jeremy Jackins <jeremyjackins@gmail.com>
Jeremy Jay <jeremy@pbnjay.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jeroen Bobbeldijk <jerbob92@gmail.com>
Jeroen Simonetti <jeroen@simonetti.nl>
Jerrin Shaji George <jerrinsg@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jesse Szwedko <jesse.szwedko@gmail.com>
Jess Espino <jespinog@gmail.com>
Jia Zhan <jzhan@uber.com>
Jiacai Liu <jiacai2050@gmail.com>
Jianing Yu <jnyu@google.com>
Jianqiao Li <jianqiaoli@gmail.com>
Jie Ma <jenius@outlook.com>
Jihyun Yu <jih0502@gmail.com>
Jim Cote <jfcote87@gmail.com>
Jim Kingdon <jim@bolt.me>
Jim McGrath <jimmcc2@gmail.com>
Jim Minter <jmin@redhat.com>
Jimmy Frasche <soapboxcicer@gmail.com>
Jimmy Zelinski <jimmyzelinski@gmail.com>
Jin-wook Jeong <jeweljar@hanmail.net>
Jingcheng Zhang <diogin@gmail.com>
Jingguo Yao <yaojingguo@gmail.com>
Jingnan Si <jtingnan.si@gmail.com>
Jinkun Zhang <franksnolf@gmail.com>
Jiong Du <londervil@gmail.com>
Jirka Dank <dnk@mail.muni.cz>
Jiulong Wang <jiiulongw@gmail.com>
Joakim Sernbrant <serbaut@gmail.com>
Joe Bowbeer <joe.bowbeer@gmail.com>
Joe Cortopassi <joe@joecortopassi.com>
Joe Farrell <joe2farrell@gmail.com>
Joe Harrison <joe hazzers@gmail.com>
Joe Henke <joe@henke@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Joe Poirier <jspoirier@gmail.com>
Joe Richey <joerichey@gmail.com>
Joe Shaw <joe@joeshaw.org>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jonathon Lacher <jonathon.lacher@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojiba@gmail.com> <joop@kiefte.net>
Jordan Christiansen <xordspar0@gmail.com>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Liggitt <liggitt@google.com>
Jordan Rhee <jordanrh@microsoft.com>
Jordi Martin <jordimartin@gmail.com>
Jorge Araya <jorgejavieran@yahoo.com.mx>
Jorge L. Fatta <jorge.fatta@auth0.com>
Jos Visser <josv@google.com>
Josa Gesell <josa@gesell.me>
Jose Luis Vquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Baum <joshbaum@google.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrh@joshh.co.uk>
Josh Roppo <joshroppro@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Bezaleel Abednego <joshua.bezaleel@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jchoushachase@gmail.com>
Joshua Crowgey <jcrowgey@uw.edu>
Joshua M. Clulow <josh.clulow@joyent.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@google.com>
JT Olds <jtolds@xnet5.com>
JT Olio <hello@jtolio.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebpereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekkka@gmail.com>
Julia Hansbrough <flowerhack@gmail.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmovj@gmail.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julian Tibble <julian.tibble@gmail.com>
Koya IWAMURA <kiwamura0314@gmail.com>
Kris Kwiatkowski <kris@cloudfflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@google.com>
Kristopher Watts <traetox@gmail.com>
Kshitij Saraogi <kshitijsaraogi@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kush Patel <kush.patel@hootsuite.com>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyle Nusbaum <kyle@datadog.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrylo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lanmm@gmail.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonardo Comelli <leonardo.comelli@gmail.com>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Liam Haworth <liam@haworth.id.au>
Lily Chung <lilithkchung@gmail.com>
Lion Yang <lion@aosc.xyz>
Liz Rice <liz@lizrice.com>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <imb@cloudflare.com>
Lorenz Brun <lorenz@brun.one>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neoliti23@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@google.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukengb.com>
Luke Young <bored-engineer@users.noreply.github.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapei2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@google.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <maiconcosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishmail@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mmr@gmail.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <nmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanmiquel <marcsanmiquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freiheit.com>
Marcus Weiner <marcus.weiner@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuennrich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Glines <mark@glines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@gmail.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Asquino <martin.asquino@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@gmail.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kreichgauer <martinkr@gmail.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Matthew Dempsey <mdempsey@google.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Ribeiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenik <maxsem.wiki@gmail.com>
Max Ushakov <ushmax@gmail.com>
Maxim Eryomenko <moeryomenko@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Pugachev <pugachev.mm@gmail.com>
Maxim Ushakov <ushakov@google.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <skrmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com> <mzh@golangcn.org>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knyszek <mknyszek@gmail.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Cook <code@mdcook.net>
Michael Darakananda <pongad@google.com>
Michael Dorner <mail@michaeldorner.de>
Michael Edwards <medwards@walledcity.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Ellis <micellis@justin.tv>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Fromberger <michael.j.fromberger@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>
Michael Henderson <mdhender@users.noreply.github.com>
Michael Hendricks <michael@ndrix.org>
Michael Hoisie <hoisie@gmail.com>
Michael Hudson-Doyle <michael.hudson@linaro.org>
Michael Kasch <michael.kasch@gmail.com>
Michael Kufl <golang@c.michael-kaeufl.de>
Michael Kelly <mjk@google.com>
Michael Lewis <mikelikespie@gmail.com>
Michael MacInnis <Michael.P.MacInnis@gmail.com>
Michael Marineau <michael.marineau@coreos.com>
Michael Matloob <matloob@google.com>
Michael McConville <momconville@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Michael McLoughlin <mmcloughlin@gmail.com>
Michael Munday <mike.munday@ibm.com>
Michael Pearson <mippearson@gmail.com>
Michael Piatek <piatek@google.com>
Michael Pratt <mpratt@google.com>
Michael Schaller <michael@5challer.de>
Michael Schurter <michael.schurter@gmail.com>
Michael Shields <mshields@google.com>
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>
Michael Steinert <mike.steinert@gmail.com>
Michael T. Jones <mtj@google.com> <michael.jones@gmail.com>
Michael Teichgraber <mteichgraeb@gmx.de> <mt4swm@googlemail.com>
Michael Traver <mtraver@google.com>
Michael Vetter <g.bluehut@gmail.com>
Michael Vogt <mvo@ubuntu.com>
Michal Bohuslivek <mbohuslivek@gmail.com>
Michal Cierniak <cierniak@google.com>
Micha Derkacz <ziutek@inet.pl>
Michal Franc <lam.michal.franc@gmail.com>
Micha owicki <mlowicki@gmail.com>
Michal Pristas <michal.pristas@gmail.com>
Michal Rostecki <mrostecki@suse.de>
Michalis Kargakis <michaliskargakis@gmail.com>
Michel Lespinasse <walken@google.com>
Mickael Kerjean <mickael.kerjean@gmail.com>
Mickey Reiss <mickeyreiss@gmail.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Acero <acero@google.com>
Miguel Mendez <stxmendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <mikti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.ley.org>
Mike Danese <mikedanese@google.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@google.com>
Peter Hoyes <pahoyes@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@gmail.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Pter Surnyi <speter.go1@gmail.com>
Pter Szab <pts@google.com>
Pter Szilgyi <peterke@gmail.com>
Peter Teichman <pteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petr Jedin <petr.jediny@gmail.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephani <phst@google.com>
Pierre Carru <pierre.carru@eshard.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellopiers.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Polina Osadcha <polliosa@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Povilas Versockas <p.versockas@gmail.com>
Prasanga Siripula <pj@pjeds.com.au>
Prasanna Swaminathan <prassanna@mediamath.com>
Prashant Agrawal <prashant.a.vjti@gmail.com>
Prashant Varanasi <prashant@prashantv.com>
Praveen Kumar <praveen+git@kumar.in>
Pravendra Singh <hackpravj@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Richard Ulmer <codesoap@mailbox.org>
Richard Wilkes <wilkes@me.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rlh@golang.org>
Rick Sayre <whorfin@gmail.com>
Rijnard van Tonder <rvantonder@gmail.com>
Riku Voipio <riku.voipio@linaro.org>
Risto Jaakko Saarelma <rsaarelm@gmail.com>
Rob Earhart <earhart@google.com>
Rob Findley <rfindley@google.com>
Rob Norman <rob.norman@infinitycloud.com>
Rob Phoenix <ro@robphoenix.com>
Rob Pike <r@golang.org>
Robert Ayrapetyan <robert.ayrapetyan@gmail.com>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
Robert Dinu <r@varp.se>
Robert Figueiredo <robfig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@gmail.com>
Robert Kuska <rkuska@gmail.com>
Robert Obryk <robryk@gmail.com>
Robert Sesek <sesek@gmail.com>
Robert Snedegar <roberts@gmail.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert van Gent <rvangent@gmail.com>
Robert-Andr Mauchin <zebob.m@gmail.com>
Roberto Clapis <robelap8@gmail.com>
Roberto Selbach <roberto@selbach.ca>
Robin Eklind <r.eklind.87@gmail.com>
Robin Zhong <robin@robinzhong.co>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Rodolfo Rodriguez <rodolfobogibson@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>
Roger Pau Monn <rogyer@gmail.com>
Roger Peppe <roppepepe@gmail.com>
Rohan Challa <rohan@golang.org>
Rohan Verma <rohanverma2004@gmail.com>
Rohith Ravi <entombedvirus@gmail.com>
Roland Illig <roland.illig@gmx.de>
Roland Shoemaker <rolandshoemaker@gmail.com>
Romain Baugue <romain.baugue@elwinar.com>
Roman Budnikov <romanyx90@yandex.ru>
Roman Kollr <roman.kollar.0@gmail.com>
Roman Shchekin <mrqrtos@gmail.com>
Ron Hashimoto <mail@h2so5.net>
Thomas Meson <zllak@hycik.org>
Thomas Symborski <thomas.symborski@gmail.com>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tianji Wu <the729@gmail.com>
Tianon Gravi <admwiggin@gmail.com>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>
Tim Henderson <tim.tadh@gmail.com>
Tim Hockin <thockin@google.com>
Tim Mhlmann <muhlenmer@gmail.com>
Tim Swast <swast@google.com>
Tim Wright <tenortim@gmail.com>
Tim Xu <xiaoxubeii@gmail.com>
Timmy Douglas <timmyd983@gmail.com>
Timo Savola <timo.savola@gmail.com>
Timo Truys <alkaloid.btx@gmail.com>
Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@google.com>
Tobias Assarsson <tobias.assarsson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@goooglemail.com>
Tobias Klauser <tklauser@distanz.ch>
Toby Burress <kurin@google.com>
Todd Kulesza <tkulesza@google.com>
Todd Neal <todde@email.org>
Todd Wang <toddwang@gmail.com>
Tom Anthony <git@tomanthony.co.uk>
Tom Bergan <tombergan@google.com>
Tom Heng <zhm20070928@gmail.com>
Tom Lanyon <tomlanyon@gmail.com>
Tom Levy <tomlevy93@gmail.com>
Tom Limoncelli <tal@whatexit.org>
Tom Linford <tomlinford@gmail.com>
Tom Parkin <tom.parkin@gmail.com>
Tom Payne <twpayne@gmail.com>
Tom Szymanski <tgs@gmail.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tomas Dabasinskas <tomas@dabasinskas.net>
Tommy Schaefer <tommy.schaefer@teecom.com>
Tomohiro Kusumoto <zabio1192@gmail.com>
Tomoya Ishizaki <zaq1tomo@gmail.com>
Tonis Tiigi <tonistiigi@gmail.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tony Reix</td>
<td><a href="mailto:tony.reix@bull.net">tony.reix@bull.net</a></td>
</tr>
<tr>
<td>Tony Walker</td>
<td><a href="mailto:walkert.uk@gmail.com">walkert.uk@gmail.com</a></td>
</tr>
<tr>
<td>Tooru Takahashi</td>
<td><a href="mailto:tooru.takahashi134@gmail.com">tooru.takahashi134@gmail.com</a></td>
</tr>
<tr>
<td>Tor Andersson</td>
<td><a href="mailto:tor.andersson@gmail.com">tor.andersson@gmail.com</a></td>
</tr>
<tr>
<td>Torben Schinke</td>
<td><a href="mailto:torben.schinke@neotos.de">torben.schinke@neotos.de</a></td>
</tr>
<tr>
<td>Tormod Erevik Lea</td>
<td><a href="mailto:tormodlea@gmail.com">tormodlea@gmail.com</a></td>
</tr>
<tr>
<td>Toshihiro Shiino</td>
<td><a href="mailto:shiino.toshihiro@gmail.com">shiino.toshihiro@gmail.com</a></td>
</tr>
<tr>
<td>Toshiki Shima</td>
<td><a href="mailto:hayabusa1419@gmail.com">hayabusa1419@gmail.com</a></td>
</tr>
<tr>
<td>Totoro W</td>
<td><a href="mailto:tw19881113@gmail.com">tw19881113@gmail.com</a></td>
</tr>
<tr>
<td>Travis Bischel</td>
<td><a href="mailto:travis.bischel@gmail.com">travis.bischel@gmail.com</a></td>
</tr>
<tr>
<td>Travis Cline</td>
<td><a href="mailto:travis.cline@gmail.com">travis.cline@gmail.com</a></td>
</tr>
<tr>
<td>Trevor Strohman</td>
<td><a href="mailto:trevor.strohman@gmail.com">trevor.strohman@gmail.com</a></td>
</tr>
<tr>
<td>Trey Lawrence</td>
<td><a href="mailto:lawrence.trey@gmail.com">lawrence.trey@gmail.com</a></td>
</tr>
<tr>
<td>Trey Roessig</td>
<td><a href="mailto:trey.roessig@gmail.com">trey.roessig@gmail.com</a></td>
</tr>
<tr>
<td>Trey Tacon</td>
<td><a href="mailto:ttacon@gmail.com">ttacon@gmail.com</a></td>
</tr>
<tr>
<td>Tristan Amini</td>
<td><a href="mailto:tamin01@ca.ibm.com">tamin01@ca.ibm.com</a></td>
</tr>
<tr>
<td>Tristan Colgate</td>
<td><a href="mailto:tcolgate@gmail.com">tcolgate@gmail.com</a></td>
</tr>
<tr>
<td>Tristan Ooohry</td>
<td><a href="mailto:ooohry@gmail.com">ooohry@gmail.com</a></td>
</tr>
<tr>
<td>Tristan Rice</td>
<td><a href="mailto:rice@fn.ic">rice@fn.ic</a></td>
</tr>
<tr>
<td>Troels Thomsen</td>
<td><a href="mailto:troels@thomsen.io">troels@thomsen.io</a></td>
</tr>
<tr>
<td>Trung Nguyen</td>
<td><a href="mailto:trung.n.k@gmail.com">trung.n.k@gmail.com</a></td>
</tr>
<tr>
<td>Tsuji Daishiro</td>
<td><a href="mailto:dram.dt.shonan@gmail.com">dram.dt.shonan@gmail.com</a></td>
</tr>
<tr>
<td>Tudor Golubenco</td>
<td><a href="mailto:tudor.g@gmail.com">tudor.g@gmail.com</a></td>
</tr>
<tr>
<td>Tugdual Saunier</td>
<td><a href="mailto:tugdual.saunier@gmail.com">tugdual.saunier@gmail.com</a></td>
</tr>
<tr>
<td>Tuo Shan</td>
<td><a href="mailto:sturbo89@gmail.com">sturbo89@gmail.com</a></td>
</tr>
<tr>
<td>Tyler Bui-Palsulich</td>
<td><a href="mailto:tpalsulich@google.com">tpalsulich@google.com</a></td>
</tr>
<tr>
<td>Tyler Bunnell</td>
<td><a href="mailto:tylerbunnell@gmail.com">tylerbunnell@gmail.com</a></td>
</tr>
<tr>
<td>Tyler Treat</td>
<td><a href="mailto:ttreat31@gmail.com">ttreat31@gmail.com</a></td>
</tr>
<tr>
<td>Tyson Andre</td>
<td><a href="mailto:tysonandre775@gmail.com">tysonandre775@gmail.com</a></td>
</tr>
<tr>
<td>Tzach Shabtay</td>
<td><a href="mailto:tzachshabtay@gmail.com">tzachshabtay@gmail.com</a></td>
</tr>
<tr>
<td>Tzu-Jung Lee</td>
<td><a href="mailto:roylee17@currant.com">roylee17@currant.com</a></td>
</tr>
<tr>
<td>Udalov Max</td>
<td><a href="mailto:re.udalov@gmail.com">re.udalov@gmail.com</a></td>
</tr>
<tr>
<td>Ugorji Nwoke</td>
<td><a href="mailto:ugorji@gmail.com">ugorji@gmail.com</a></td>
</tr>
<tr>
<td>Ulf Holm Nielsen</td>
<td><a href="mailto:doktor@dyregod.dk">doktor@dyregod.dk</a></td>
</tr>
<tr>
<td>Ulrich Kunitz</td>
<td><a href="mailto:uli.kunitz@gmail.com">uli.kunitz@gmail.com</a></td>
</tr>
<tr>
<td>Umang Parmar</td>
<td><a href="mailto:umangiparmar@gmail.com">umangiparmar@gmail.com</a></td>
</tr>
<tr>
<td>Uriel Mangado</td>
<td><a href="mailto:uriel@berlinblue.org">uriel@berlinblue.org</a></td>
</tr>
<tr>
<td>Urvil Patel</td>
<td><a href="mailto:patelurvil38@gmail.com">patelurvil38@gmail.com</a></td>
</tr>
<tr>
<td>Uttam C Pawar</td>
<td><a href="mailto:uttam.c.pawar@intel.com">uttam.c.pawar@intel.com</a></td>
</tr>
<tr>
<td>Vadim Grek</td>
<td><a href="mailto:vadimprog@gmail.com">vadimprog@gmail.com</a></td>
</tr>
<tr>
<td>Vadim Vygonets</td>
<td><a href="mailto:unixdj@gmail.com">unixdj@gmail.com</a></td>
</tr>
<tr>
<td>Val Polouchkine</td>
<td><a href="mailto:vpolouch@justin.tv">vpolouch@justin.tv</a></td>
</tr>
<tr>
<td>Valentin Vadic</td>
<td><a href="mailto:vvidic@valentin-vidic.from.hr">vvidic@valentin-vidic.from.hr</a></td>
</tr>
<tr>
<td>Vee Zhang</td>
<td><a href="mailto:veezhang@126.com">veezhang@126.com</a></td>
</tr>
<tr>
<td>Vega Garcia Luis Alfonso</td>
<td><a href="mailto:vegacom@gmail.com">vegacom@gmail.com</a></td>
</tr>
<tr>
<td>Venil Noronha</td>
<td><a href="mailto:veniln@vmware.com">veniln@vmware.com</a></td>
</tr>
<tr>
<td>Veselkov Konstantin</td>
<td><a href="mailto:kostozyb@gmail.com">kostozyb@gmail.com</a></td>
</tr>
<tr>
<td>Viacheslav Poturaev</td>
<td><a href="mailto:vearutop@gmail.com">vearutop@gmail.com</a></td>
</tr>
</tbody>
</table>
Victor Chudnovsky <vchudnov@google.com>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask.google.com>
Ville Skytt <ville.skytt@iki.fi>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vini Rajashekhar <vinutheraj@gmail.com>
Vish Subramanian <vish@gmail.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara R <r.visweswara@gmail.com>
Vitaly Zdanevich <zdanevich.vitaly@ya.ru>
Vitor De Mario <vitordemario@gmail.com>
Vivek Sekhar <vsekharr@google.com>
Vivian Liang <vliang88@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Evgrafov <evgrafov.vladimir@gmail.com>
Vladimir Kovpak <cn007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vovva616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Vojtech Bocek <vbocek@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Papatroski <vpaprots@ca.ibm.com>
W. Trevor King <wking@tremily.us>
Wade Simmons <wade@wades.im>
Wagner Riffel <wgriffel@gmail.com>
Walt Della <walt@javins.net>
Walter Poupore <wpoupore@google.com>
Wander Lairson Costa <wcosta@mozilla.com>
Wang Xuerui <git@xen0n.name>
Warren Fernandes <warren.f.fernandes@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@gmail.com>
Weerasak Chongnguluam <singpor@gmail.com>
Wi Cngru <crvv.mail@gmail.com>
Wei Fu <fhuwei@163.com>
Wei Guangjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Wei Xikai <xykwei@gmail.com>
Weichao Tang <tevic.tt@gmail.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
Wenlei (Frank) He <wlhe@google.com>
Wenzel Lowe <lowewenzel@gmail.com>
Wil Selwood <wselwood@gmail.com>
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# # Names should be added to this file as:
# Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
Andrew Hunter <andrewhhunter@gmail.com>

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package spec
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//
// For more information: http://goo.gl/8us55a#licenseObject

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    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{"the name", "the url"}
    const licenseJSON = `{ "name": "the name", "url": "the url" }
    const licenseYAML = "name: the name
    url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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1.3089 end-of-stream 1.4.4
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Lato font family

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

Version 2.007; Latin+Cyrillic+Greek+IPA opensource

Created by: tyPoland Lukasz Dziedzic
Creation year: 2014

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Source URL: http://www.latofonts.com/
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================
Lato is a sanserif typeface family designed in the Summer 2010 by Warsaw-based designer ukasz Dziedzic (“Lato” means “Summer” in Polish). In December 2010 the Lato family was published under the open-source Open Font License by his foundry tyPoland, with support from Google. In 2013-2014, the family was greatly extended to cover 2300+ glyphs per style. It now supports 100+ Latin-based languages, 50+ Cyrillic-based languages as well as Greek and IPA phonetics. In the process, the metrics and kerning of the family have been revised and four additional weights were created.

In the last ten or so years, during which ukasz has been designing type, most of his projects were rooted in a particular design task that he needed to solve. With Lato, it was no different. Originally, the family was conceived as a set of corporate fonts for a large client — who in the end decided to go in different stylistic direction, so the family became available for a public release.

When working on Lato, ukasz tried to carefully balance some potentially conflicting priorities. He wanted to create a typeface that would seem quite “transparent” when used in body text but would display some original traits when used in larger sizes. He used classical proportions (particularly visible in the uppercase) to give the letterforms familiar harmony and elegance. At the same time, he created a sleek sanserif look, which makes evident the fact that Lato was designed in 2010 — even though it does not follow any current trend.

The semi-rounded details of the letters give Lato a feeling of warmth, while the strong structure provides stability and seriousness. “Male and female, serious but friendly. With the feeling of the Summer,” says ukasz.

Lato consists of nine weights (plus corresponding italics), including a beautiful hairline style.

CONTENT:

This folder contains 18 font files in OpenType TT (.ttf) format. You can install these fonts on your computer and use in any desktop applications (such as Word, InDesign, Illustrator, Photoshop, Keynote or Pages).

REVISION LOG:

# Version 2.007 (2014-02-27)
Greatly expanded character set, revised metrics, four additional weights.

# Version 1.104 (2011-11-08)
Merged the distribution again
Autohinted with updated ttfautohint 0.4 (which no longer causes Adobe and iOS problems) except the Hai and Lig weights which are hinted in FLS 5.1.

# Version 1.102 (2011-10-28)
Added OpenType Layout features
SPLIT between desktop and web versions
Desktop version: all weights autohinted with FontLab Studio
Web version autohinted with ttfautohint 0.4 except the Hai and Lig weights
# Version 1.101 (2011-09-30)
Fixed OS/2 table Unicode and codepage entries

# Version 1.100 (2011-09-12)
Added Polish diacritics to the character set
Weights Hai and Lig autohinted with FontLab Studio
Other weights autohinted with ttfautohint 0.3

# Version 1.011 (2010-12-29)
Added the soft hyphen glyph

# Version 1.010 (2010-12-13)
Initial version released under SIL Open Font License
Western character set

=-------------------=
Found in path(s):
* /opt/cola/permits/1137147948_1614022892.23/0/fonts-lato-2-0-orig-2-tar-xz/fonts-lato-2.0/README.txt
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1.3092 berkeley-db 5.3.28-13.1ubuntu1
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package spec

import (
    "encoding/json"
    "testing"
    "github.com/stretchr/testify/assert"
)

var license = License{
    LicenseProps:     LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {

    b, err := json.MarshalIndent(license, "", "\t")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }
}
actual := License{}  
err = json.Unmarshal([]byte(licenseJSON), &actual)  
if assert.NoError(t, err) {  
assert.EqualValues(t, license, actual)  
}  
}

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import (
    "encoding/json"

    "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {

Name string "json:"nameomitempty"
URL string "json:"urlomitempty"
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
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1.3106 netbase 5.4

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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader.
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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\"
NAME
SLIST_EMPTY ,
SLIST_ENTRY ,
SLIST_FIRST ,
SLIST_FOREACH ,
SLIST_FOREACH_SAFE ,
SLIST_HEAD ,
SLIST_HEAD_INITIALIZER ,
SLIST_INIT ,
SLIST_INSERT_AFTER ,
SLIST_INSERT_HEAD ,
SLIST_NEXT ,
SLIST_REMOVE_AFTER ,
SLIST_REMOVE_HEAD ,
SLIST_REMOVE ,
SLIST_SWAP ,
STAILQ_CONCAT ,
STAILQ_EMPTY ,
STAILQ_ENTRY ,
STAILQ_FIRST ,
STAILQ_FOREACH ,
STAILQ_FOREACH_SAFE ,
STAILQ_HEAD ,
STAILQ_HEAD_INITIALIZER ,
STAILQ_INIT ,
STAILQ_INSERT_AFTER ,
STAILQ_INSERT_HEAD ,
STAILQ_INSERT_TAIL ,
STAILQ_LAST ,
STAILQ_NEXT ,
STAILQ_REMOVE_AFTER ,
STAILQ_REMOVE_HEAD ,
STAILQ_REMOVE ,
STAILQ_SWAP ,
LIST_EMPTY ,
LIST_ENTRY ,
LIST_FIRST ,
LIST_FOREACH ,
LIST_FOREACH_SAFE ,
LIST_HEAD ,
LIST_HEAD_INITIALIZER ,
LIST_INIT ,
Nd implementations of singly-linked lists, singly-linked tail queues, lists and tail queues

.Sh SYNOPSIS
.In sys/queue.h

"\n.Fn SLIST_EMPTY "SLIST_HEAD *head"
.Fn SLIST_ENTRY "TYPE"
.Fn SLIST_FIRST "SLIST_HEAD *head"
.Fn SLIST_FOREACH "TYPE *var" "SLIST_HEAD *head" "SLIST_ENTRY NAME"
.Fn SLIST_FOREACH_SAFE "TYPE *var" "SLIST_HEAD *head" "SLIST_ENTRY NAME" "TYPE *temp_var"
.Fn SLIST_HEAD "HEADNAME" "TYPE"
.Fn SLIST_HEAD_INITIALIZER "SLIST_HEAD head"
.Fn SLIST_INIT "SLIST_HEAD *head"
.Fn SLIST_INSERT_AFTER "TYPE *listelm" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_INSERT_HEAD "SLIST_HEAD *head" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_NEXT "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE_AFTER "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE "SLIST_HEAD *head" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_SWAP "SLIST_HEAD *head1" "SLIST_HEAD *head2" "SLIST_ENTRY NAME"
\"
These macros define and operate on four types of data structures:
singly-linked lists, singly-linked tail queues, lists, and tail queues.
All four structures support the following functionality:

- **Insertion of a new entry at the head of the list.**
- **Insertion of a new entry after any element in the list.**
- **O(1) removal of an entry from the head of the list.**
- **Forward traversal through the list.**
- **Swapping the contents of two lists.**

Singly-linked lists are the simplest of the four data structures and support only the above functionality.
Singly-linked lists are ideal for applications with large datasets and few or no removals, or for implementing a LIFO queue.
Singly-linked lists add the following functionality:

- **O(n) removal of any entry in the list.**
- **They may be concatenated.**

Singly-linked tail queues add the following functionality:

- **Entries can be added at the end of a list.**
- **O(n) removal of any entry in the list.**
- **They may be concatenated.**
However:
  .Bl -enum -compact -offset indent
  .It
  All list insertions must specify the head of the list.
  .It
  Each head entry requires two pointers rather than one.
  .It
  Code size is about 15% greater and operations run about 20% slower than singly-linked lists.
  .El
  .Pp
  Singly-linked tailqs are ideal for applications with large datasets and few or no removals, or for implementing a FIFO queue.
  .Pp
  All doubly linked types of data structures (lists and tail queues) additionally allow:
  .Bl -enum -compact -offset indent
  .It
  Insertion of a new entry before any element in the list.
  .It
  O(1) removal of any entry in the list.
  .El
  However:
  .Bl -enum -compact -offset indent
  .It
  Each element requires two pointers rather than one.
  .It
  Code size and execution time of operations (except for removal) is about twice that of the singly-linked data-structures.
  .El
  .Pp
  Linked lists are the simplest of the doubly linked data structures and support only the above functionality over singly-linked lists.
  .Pp
  Tail queues add the following functionality:
  .Bl -enum -compact -offset indent
  .It
  Entries can be added at the end of a list.
  .It
  They may be traversed backwards, from tail to head.
  .It
  They may be concatenated.
  .El
  However:
  .Bl -enum -compact -offset indent
  .It
  All list insertions and removals must specify the head of the list.
Each head entry requires two pointers rather than one.

Code size is about 15% greater and operations run about 20% slower than singly-linked lists.

In the macro definitions,

is the name of a user defined structure, that must contain a field of type

or

named

The argument

is the name of a user defined structure that must be declared using the macros

or

See the examples below for further explanation of how these macros are used.

A singly-linked list is headed by a structure defined by the

This structure contains a single pointer to the first element on the list.
The elements are singly linked for minimum space and pointer manipulation overhead at the expense of \( O(n) \) removal for arbitrary elements.

New elements can be added to the list after an existing element or at the head of the list.

An

structure is declared as follows:

where


is the name of the structure to be defined, and

is the type of the elements to be linked into the list.

A pointer to the head of the list can later be declared as:

```
struct HEADNAME *headp;
```

(The names

and

are user selectable.)

The macro

```
SLIST_HEAD_INITIALIZER
```
evaluates to an initializer for the list

```
头
```

The macro

```
SLIST_EMPTY
```
evaluates to true if there are no elements in the list.

The macro

```
SLIST_ENTRY
```
declares a structure that connects the elements in
the list.

The macro

```
SLIST_FIRST
```
returns the first element in the list or NULL if the list is empty.

The macro

```
SLIST_FOREACH
```
traverses the list referenced by

in the forward direction, assigning each element in

turn to

```
var
```

The macro

```
SLIST_FOREACH_SAFE
```
traverses the list referenced by

in the forward direction, assigning each element in

turn to

```
var
```

However, unlike
here it is permitted to both remove
as well as free it from within the loop safely without interfering with the
traversal.

The macro

initializes the list referenced by

The macro

inserts the new element

at the head of the list.

The macro

inserts the new element

after the element

The macro

returns the next element in the list.

The macro

removes the element after
from the list. Unlike
this macro does not traverse the entire list.

The macro

removes the element
from the head of the list.
For optimum efficiency,
elements being removed from the head of the list should explicitly use
this macro instead of the generic
macro.

The macro
.Nm SLIST_REMOVE
removes the element
.Fa elm
from the list.
.Pp
The macro
.Nm SLIST_SWAP
swaps the contents of
.Fa head1
and
.Fa head2.
.Sh SINGLY-LINKED LIST EXAMPLE
.Bd -literal
SLIST_HEAD(slisthead, entry) head =
  SLIST_HEAD_INITIALIZER(head);
struct slisthead *headp; /* Singly-linked List head. */
struct entry {
  ...
  SLIST_ENTRY(entry) entries; /* Singly-linked List. */
  ...
} *n1, *n2, *n3, *np;
SLIST_INIT(&head); /* Initialize the list. */
n1 = malloc(sizeof(struct entry)); /* Insert at the head. */
SLIST_INSERT_HEAD(&head, n1, entries);
n2 = malloc(sizeof(struct entry)); /* Insert after. */
SLIST_INSERT_AFTER(n1, n2, entries);
SLIST_REMOVE(&head, n2, entry, entries); /* Deletion. */
free(n2);
n3 = SLIST_FIRST(&head);
SLIST_REMOVE_HEAD(&head, entries); /* Deletion from the head. */
free(n3);
/* Forward traversal. */
SLIST_FOREACH(np, &head, entries)
  np-> ...
/* Safe forward traversal. */
SLIST_FOREACH_SAFE(np, &head, entries, np_temp) {
  np->do_stuff();
  ...
  SLIST_REMOVE(&head, np, entry, entries);
  free(np);
}
while (!SLIST_EMPTY(&head)) /* List Deletion. */
n1 = SLIST_FIRST(&head);
SLIST_REMOVE_HEAD(&head, entries);
free(n1);
}
.
.
.Sh SINGLY-LINKED TAIL QUEUES
A singly-linked tail queue is headed by a structure defined by the
.Nm STAILQ_HEAD
macro.
This structure contains a pair of pointers,
one to the first element in the tail queue and the other to
the last element in the tail queue.
The elements are singly linked for minimum space and pointer
manipulation overhead at the expense of O(n) removal for arbitrary
elements.
New elements can be added to the tail queue after an existing element,
at the head of the tail queue, or at the end of the tail queue.
A
.Fa STAILQ_HEAD
structure is declared as follows:
.Bd -literal -offset indent
STAILQ_HEAD(HEADNAME, TYPE) head;
.Ed
.Pp
where
.Li HEADNAME
is the name of the structure to be defined, and
.Li TYPE
is the type of the elements to be linked into the tail queue.
A pointer to the head of the tail queue can later be declared as:
.Bd -literal -offset indent
struct HEADNAME *headp;
.Ed
.Pp
(The names
.Li head
and
.Li headp
are user selectable.)
.Pp
The macro
.Nm STAILQ_HEAD_INITIALIZER
evaluates to an initializer for the tail queue
.Fa head .
.Pp
The macro
.Nm STAILQ_CONCAT
concatenates the tail queue headed by
onto the end of the one headed by removing all entries from the former.

The macro `STAILQ_EMPTY` evaluates to true if there are no items on the tail queue.

The macro `STAILQ_ENTRY` declares a structure that connects the elements in the tail queue.

The macro `STAILQ_FIRST` returns the first item on the tail queue or NULL if the tail queue is empty.

The macro `STAILQ_FOREACH` traverses the tail queue referenced by `head` in the forward direction, assigning each element in turn to `var`.

The macro `STAILQ_FOREACH_SAFE` traverses the tail queue referenced by `head` in the forward direction, assigning each element in turn to `var`. However, unlike `STAILQ_FOREACH` here it is permitted to both remove `var` as well as free it from within the loop safely without interfering with the traversal.

The macro `STAILQ_INIT` initializes the tail queue referenced by `head`.

The macro `STAILQ_INSERT_HEAD`
inserts the new element
.Fa elm
at the head of the tail queue.
.Pp
The macro
.Nm STAILQ_INSERT_TAIL
inserts the new element
.Fa elm
at the end of the tail queue.
.Pp
The macro
.Nm STAILQ_INSERT_AFTER
inserts the new element
.Fa elm
after the element
.Fa listelm .
.Pp
The macro
.Nm STAILQ_LAST
returns the last item on the tail queue.
If the tail queue is empty the return value is
.Dv NULL .
.Pp
The macro
.Nm STAILQ_NEXT
returns the next item on the tail queue, or NULL this item is the last.
.Pp
The macro
.Nm STAILQ_REMOVE_AFTER
removes the element after
.Fa elm
from the tail queue. Unlike
.Fa STAILQ_REMOVE ,
this macro does not traverse the entire tail queue.
.Pp
The macro
.Nm STAILQ_REMOVE_HEAD
removes the element at the head of the tail queue.
For optimum efficiency,
elements being removed from the head of the tail queue should
use this macro explicitly rather than the generic
.Fa STAILQ_REMOVE
macro.
.Pp
The macro
.Nm STAILQ_REMOVE
removes the element
.Fa elm
from the tail queue.

The macro

```
STAILQ_SWAP
```

swaps the contents of

```
head1
```

and

```
head2
```

### SINGLY-LINKED TAIL QUEUE EXAMPLE

```
STAILQ_INIT(&head); /* Initialize the queue. */

n1 = malloc(sizeof(struct entry)); /* Insert at the head. */
STAILQ_INSERT_HEAD(&head, n1, entries);

n1 = malloc(sizeof(struct entry)); /* Insert at the tail. */
STAILQ_INSERT_TAIL(&head, n1, entries);

n2 = malloc(sizeof(struct entry)); /* Insert after. */
STAILQ_INSERT_AFTER(&head, n1, n2, entries);

/* Deletion. */
STAILQ_REMOVE(&head, n2, entry, entries);
free(n2);

/* Deletion from the head. */
n3 = STAILQ_FIRST(&head);
STAILQ_REMOVE_HEAD(&head, entries);
free(n3);

/* Forward traversal. */
STAILQ_FOREACH(np, &head, entries)
np-> ... 
/* Safe forward traversal. */
STAILQ_FOREACH_SAFE(np, &head, entries, np_temp) {
np->do_stuff();
...
STAILQ_REMOVE(&head, np, entry, entries);
free(np);
}
/* TailQ Deletion. */
while (!STAILQ_EMPTY(&head)) {
    ...
A list is headed by a structure defined by the `LIST_HEAD` macro. This structure contains a single pointer to the first element on the list. The elements are doubly linked so that an arbitrary element can be removed without traversing the list. New elements can be added to the list after an existing element, before an existing element, or at the head of the list.

A `LIST_HEAD` structure is declared as follows:

```
LIST_HEAD(HEADNAME, TYPE) head;
```

where

- `HEADNAME` is the name of the structure to be defined, and
- `TYPE` is the type of the elements to be linked into the list.

A pointer to the head of the list can later be declared as:

```
struct HEADNAME *headp;
```

(The names `head` and `headp` are user selectable.)

The macro

```
LIST_HEAD_INITIALIZER
```
evaluates to an initializer for the list

The macro

evaluates to true if there are no elements in the list.

The macro

declares a structure that connects the elements in the list.

The macro

returns the first element in the list or NULL if the list is empty.

The macro

traverses the list referenced by in the forward direction, assigning each element in turn to.

The macro

traverses the list referenced by in the forward direction, assigning each element in turn to.

However, unlike here it is permitted to both remove as well as free it from within the loop safely without interfering with the traversal.

The macro

initializes the list referenced by

The macro

inserts the new element at the head of the list.
The macro `.Nm LIST_INSERT_AFTER` inserts the new element `.Fa elm` after the element `.Fa listelm`.

The macro `.Nm LIST_INSERT_BEFORE` inserts the new element `.Fa elm` before the element `.Fa listelm`.

The macro `.Nm LIST_NEXT` returns the next element in the list, or NULL if this is the last.

The macro `.Nm LIST_REMOVE` removes the element `.Fa elm` from the list.

The macro `.Nm LIST_SWAP` swaps the contents of `.Fa head1` and `.Fa head2`.

**LIST EXAMPLE**

```c
LIST_HEAD(listhead, entry) head =
    LIST_HEAD_INITIALIZER(head);
struct listhead *headp;/* List head. */
struct entry {
    ...
    LIST_ENTRY(entry) entries;/* List. */
    ...
} *n1, *n2, *n3, *np, *np_temp;

LIST_INIT(&head);/* Initialize the list. */

n1 = malloc(sizeof(struct entry));/* Insert at the head. */
LIST_INSERT_HEAD(&head, n1, entries);

n2 = malloc(sizeof(struct entry));/* Insert after. */
LIST_INSERT_AFTER(n1, n2, entries);
```
n3 = malloc(sizeof(struct entry)); /* Insert before. */
LIST_INSERT_BEFORE(n2, n3, entries);

LIST_REMOVE(n2, entries); /* Deletion. */
free(n2);
/* Forward traversal. */
LIST_FOREACH(np, &head, entries)
np-> ...

/* Safe forward traversal. */
LIST_FOREACH_SAFE(np, &head, entries, np_temp) {
np->do_stuff();
...
LIST_REMOVE(np, entries);
free(np);
}

while (!LIST_EMPTY(&head)) {/* List Deletion. */
  n1 = LIST_FIRST(&head);
  LIST_REMOVE(n1, entries);
  free(n1);
}

n1 = LIST_FIRST(&head); /* Faster List Deletion. */
while (n1 != NULL) {
  n2 = LIST_NEXT(n1, entries);
  free(n1);
  n1 = n2;
}
LIST_INIT(&head);
.Ed
.Sh TAIL QUEUES
A tail queue is headed by a structure defined by the
.Nm TAILQ_HEAD
macro.
This structure contains a pair of pointers,
one to the first element in the tail queue and the other to
the last element in the tail queue.
The elements are doubly linked so that an arbitrary element can be
removed without traversing the tail queue.
New elements can be added to the tail queue after an existing element,
before an existing element, at the head of the tail queue,
or at the end of the tail queue.
A
.Fa TAILQ_HEAD
structure is declared as follows:
.Bd -literal -offset indent
TAILQ_HEAD(HEADNAME, TYPE) head;
.Ed
.Pp
where
.Ed .Li HEADNAME
is the name of the structure to be defined, and
.Ed .Li TYPE
is the type of the elements to be linked into the tail queue.
A pointer to the head of the tail queue can later be declared as:
.Ed -literal -offset indent
struct HEADNAME *headp;
.Ed
.Pp
(The names
.Ed .Li head
and
.Ed .Li headp
are user selectable.)
.Ed
.Pp
The macro
.Ed .Nm TAILQ_HEAD_INITIALIZER
evaluates to an initializer for the tail queue
.Ed .Fa head.
.Ed
.Pp
The macro
.Ed .Nm TAILQ_CONCAT
concatenates the tail queue headed by
.Ed .Fa head2
onto the end of the one headed by
.Ed .Fa head1
removing all entries from the former.
.Ed
.Pp
The macro
.Ed .Nm TAILQ_EMPTY
evaluates to true if there are no items on the tail queue.
.Ed
.Pp
The macro
.Ed .Nm TAILQ_ENTRY
declares a structure that connects the elements in
.Ed the tail queue.
.Ed
.Pp
The macro
.Ed .Nm TAILQ_FIRST
returns the first item on the tail queue or NULL if the tail queue
.Ed is empty.
.Ed
.Pp
The macro
.Ed .Nm TAILQ_FOREACH
traverses the tail queue referenced by
.Fa head
in the forward direction, assigning each element in turn to
.Fa var.
.Fa var
is set to
.Dv NULL
if the loop completes normally, or if there were no elements.
.Pp
The macro
.Nm TAILQ_FOREACH_REVERSE
traverses the tail queue referenced by
.Fa head
in the reverse direction, assigning each element in turn to
.Fa var.
.Pp
The macros
.Nm TAILQ_FOREACH_SAFE
and
.Nm TAILQ_FOREACH_REVERSE_SAFE
traverse the list referenced by
.Fa head
in the forward or reverse direction respectively, assigning each element in turn to
.Fa var.
However, unlike their unsafe counterparts,
.Nm TAILQ_FOREACH
and
.Nm TAILQ_FOREACH_REVERSE
permit to both remove
.Fa var
as well as free it from within the loop safely without interfering with the traversal.
.Pp
The macro
.Nm TAILQ_INIT
initializes the tail queue referenced by
.Fa head.
.Pp
The macro
.Nm TAILQ_INSERT_HEAD
inserts the new element
.Fa elm
at the head of the tail queue.
.Pp
The macro
.Nm TAILQ_INSERT_TAIL
inserts the new element
at the end of the tail queue.

The macro
.Tm TAILQ_INSERT_AFTER
inserts the new element
.after the element
.Tm listelm .

The macro
.Tm TAILQ_INSERT_BEFORE
inserts the new element
.before the element
.Tm listelm .

The macro
.Tm TAILQ_LAST
returns the last item on the tail queue.
If the tail queue is empty the return value is
.Td NULL .

The macro
.Tm TAILQ_NEXT
returns the next item on the tail queue, or NULL if this item is the last.

The macro
.Tm TAILQ_PREV
returns the previous item on the tail queue, or NULL if this item is the first.

The macro
.Tm TAILQ_REMOVE
removes the element
.from the tail queue.

The macro
.Tm TAILQ_SWAP
swaps the contents of
and
.Tm head2 .
.Sh TAIL QUEUE EXAMPLE
.Bd -literal
TAILQ_HEAD(tailhead, entry) head =
TAILQ_HEAD_INITIALIZER(head);
struct tailhead *headp;/* Tail queue head. */
struct entry {
    ...
    TAILQ_ENTRY(entry) entries;/* Tail queue. */
    ...
} *n1, *n2, *n3, *np;

TAILQ_INIT(&head); /* Initialize the queue. */

n1 = malloc(sizeof(struct entry)); /* Insert at the head. */
TAILQ_INSERT_HEAD(&head, n1, entries);

n1 = malloc(sizeof(struct entry)); /* Insert at the tail. */
TAILQ_INSERT_TAIL(&head, n1, entries);

n2 = malloc(sizeof(struct entry)); /* Insert after. */
TAILQ_INSERT_AFTER(&head, n1, n2, entries);

n3 = malloc(sizeof(struct entry)); /* Insert before. */
TAILQ_INSERT_BEFORE(n2, n3, entries);

TAILQ_REMOVE(&head, n2, entries); /* Deletion. */
free(n2);
/* Forward traversal. */
TAILQ_FOREACH(np, &head, entries)
    np-> ...
/* Safe forward traversal. */
TAILQ_FOREACH_SAFE(np, &head, entries, np_temp) {
    np->do_stuff();
    ...
    TAILQ_REMOVE(&head, np, entries);
    free(np);
}
/* Reverse traversal. */
TAILQ_FOREACH_REVERSE(np, &head, tailhead, entries)
    np-> ...
/* TailQ Deletion. */
while (!TAILQ_EMPTY(&head)) {
    n1 = TAILQ_FIRST(&head);
    TAILQ_REMOVE(&head, n1, entries);
    free(n1);
}
/* Faster TailQ Deletion. */
n1 = TAILQ_FIRST(&head);
while (n1 != NULL) {
    n2 = TAILQ_NEXT(n1, entries);
    free(n1);
    n1 = n2;
TAILQ_INIT(&head);
.Ed
.Sh SEE ALSO
.Xr tree 3
.Sh HISTORY
The
.Nm queue
functions first appeared in
.Bx 4.4 .
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unizma.c
xmalloc_tlsf.c
libelf/*
libfdt/*
lz4/decompress.c
xz/*

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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.

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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
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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
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It may happen that this requirement contradicts the license
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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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4. You may copy and distribute the Library (or a portion or 
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it with the complete corresponding machine-readable source code, which 
must be distributed under the terms of Sections 1 and 2 above on a 
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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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When a "work that uses the Library" uses material from a header file 
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Whether this is true is especially significant if the work can be 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) 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
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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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-- Keir Fraser (on behalf of the Xen team)

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copy of the library already present on the user's computer system,
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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");,`
}

func TestLicense(t *testing.T) {
    t.Parallel()
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
if err != nil {
    return err
}

if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
})
if err != nil {
    t.Fatal(err)
}

1.3126 pwgen 2.08-1
1.3126.1 Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: pwgen
Upstream-Contact: tytso@mit.edu
Source: https://github.com/tytso/pwgen

Files: *
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1.3127 jinja2 2.11.3

1.3127.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/LICENSE.rst
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.3
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: Code, https://github.com/pallets/jinja
Description: 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 %}
```

Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH
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 :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
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.*, !=3.4.*
Description-Content-Type: text/x-rst
Provides-Extra: i18n

import io
import re
from setuptools import find_packages
from setuptools import setup

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

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = "(.*)", f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
    },
"Issue tracker": "https://github.com/pallets/jinja/issues",
}
license="BSD-3-Clause",
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=readme,
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 :: 2",
"Programming Language :: Python :: 2.7",
"Programming Language :: Python :: 3",
"Programming Language :: Python :: 3.5",
"Programming Language :: Python :: 3.6",
"Programming Language :: Python :: 3.7",
"Programming Language :: Python :: 3.8",
"Programming Language :: Python :: Implementation :: CPython",
"Programming Language :: Python :: Implementation :: PyPy",
"Topic :: Internet :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"],
}

Found in path(s):
* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/setup.py

1.3128 libonig4 6.7.0 1
1.3128.1 Available under license :
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0
Source: https://github.com/kkos/oniguruma
Files: *
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1.3129 rsync 3.1.2-2.1ubuntu1.2
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1.3137 ubuntu-keyring 2018.09.18.1~18.04.2

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1.3138 maorfr-helm-plugin-utils 0.0.0-20200827170302-51b70049c73f

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## 1.3141 stack 1.6.0

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Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschlus.de>

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1.3169 argparse 2.0.1
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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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1.3170 structured-merge-diff 4.0.1

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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)
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```
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```

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```
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1.3181 pam 1.1.8-3.6ubuntu2.18.04.3

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian
struct stat s;
int f;
/* Get the user name to determine if we need to print the disclaimer */
rc = pam_get_item(pamh, PAM_USER, &user);
if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0') {
    PAM_MODUTIL_DEF_PRIVS(privs);
    /* Get the password entry */
    pwd = pam_modutil_getpwnam (pamh, user);
    if (pwd != NULL) {
        if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
            pam_syslog(pamh, LOG_ERR,
                    "Unable to change UID to %d temporarily\n",
                    pwd->pw_uid);
            retval = PAM_SESSION_ERR;
            goto finished;
        }
        if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
            goto finished;
        if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
            goto finished;
        if (stat(flag, &s) != 0)
            display_file(pamh, "/etc/legal");
        mkdir(dir, 0700);
        f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
                S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
        if (f>=0) close(f);
    }
    /* finished: */
    if (pam_modutil_regain_priv(pamh, &privs)) {
        pam_syslog(pamh, LOG_ERR,
                "Unable to change UID back to \%d\n", privs.old_uid);
        retval = PAM_SESSION_ERR;
    }
    _pam_drop(flag);
    _pam_drop(dir);
} return retval;
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ @ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);
+
    /* Display the legal disclaimer only if necessary */
    retval = display_legal(pamh);
+
    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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= minitest/{test,spec,mock,benchmark}

home :: https://github.com/seattlerb/minitest
bugs :: https://github.com/seattlerb/minitest/issues
rdoc :: http://docs.seattlerb.org/minitest
vim :: https://github.com/sunaku/vim-ruby-minitest
emacs:: https://github.com/arthurnn/minitest-emacs

== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting
TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were
allowed to choose our testing frameworks. Kirk Haines and I were
paired up and we cracked open the code for a few test
frameworks...

I MUST say that minitest is *very* readable / understandable
compared to the 'other two' options we looked at. Nicely done and
thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework.
It provides a rich set of assertions to make your tests clean and
readable.

minitest/spec is a functionally complete spec engine. It hooks onto
minitest/test and seamlessly bridges test assertions over to spec
expectations.

minitest/benchmark is an awesome way to assert the performance of your
algorithms in a repeatable manner. Now you can assert that your newb
co-worker doesn't replace your linear algorithm with an exponential
one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub)
object framework.

minitest/pride shows pride in testing and adds coloring to your test
output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language
implementors that need a minimal set of methods to bootstrap a working
test suite. For example, there is no magic involved for test-case
discovery.

"Again, I can't praise enough the idea of a testing/specing
framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:
rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply.

== FEATURES/PROBLEMS:

* minitest/autorun - the easy and explicit way to run all your tests.
* minitest/test - a very fast, simple, and clean test system.
* minitest/spec - a very fast, simple, and clean spec system.
* minitest/mock - a simple and clean mock/stub system.
* minitest/benchmark - an awesome way to assert your algorithm's performance.
* minitest/pride - show your pride in testing!
* Incredibly small and fast runner, but no bells and whistles.
* Written by squishy human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:

See design_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

class Meme
  def i_can_has_cheezburger?
    "OHAI!"
  end

  def will_it_blend?
    "YES!"
  end
end

=== Unit tests

Define your tests as methods beginning with +test_+.

require "minitest/autorun"

class TestMeme < Minitest::Test
  def setup
    @meme = Meme.new
  end
end
def test_that_kitty_can_eat
    assert_equal "OHAI!", @meme.i_can_has_cheezburger?
end

def test_that_it_will_not_blend
    refute_match /^no/i, @meme.will_it_blend?
end

def test_that_will_be_skipped
    skip "test this later"
end

=== Specs

require "minitest/autorun"

describe Meme do
    before do
        @meme = Meme.new
    end

    describe "when asked about cheeseburgers" do
        it "must respond positively" do
            @meme.i_can_has_cheezburger?.must_equal "OHAI!"
        end
    end

    describe "when asked about blending possibilities" do
        it "won't say no" do
            @meme.will_it_blend?.wont_match /^no/i
        end
    end

end

For matchers support check out:

* https://github.com/wojtekmach/minitest-matchers
* https://github.com/rmm5t/minitest-matchers_vaccine

=== Benchmarks

Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV["BENCH"]
class TestMeme < Minitest::Benchmark
  # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
  def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
      @obj.my_algorithm(n)
    end
  end
end

Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match <tt>/Bench(mark)?$/</tt>.

describe "Meme Benchmark" do
  if ENV["BENCH"]
    bench_performance_linear "my_algorithm", 0.9999 do |n|
      100.times do
        @obj.my_algorithm(n)
      end
    end
  end
end

outputs something like:

# Running benchmarks:

TestBlah100100010000
bench_my_algorithm 0.006167 0.079279 0.786993
bench_other_algorithm 0.061679 0.792797 7.869932

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

class MemeAsker
  def initialize(meme)
    @meme = meme
  end
def ask(question)
    method = question.tr(" ", ".") + "?"
    @meme.__send__(method)
end
end

require "minitest/autorun"

describe MemeAsker, :ask do
    describe "when passed an unpunctuated question" do
        it "should invoke the appropriate predicate method on the meme" do
            @meme = Minitest::Mock.new
            @meme_asker = MemeAsker.new @meme
            @meme.expect :will_it_blend?, :return_value

            @meme_asker.ask "will it blend"

            @meme.verify
        end
    end
end

**Multi-threading and Mocks**

Minitest mocks do not support multi-threading if it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

def test_called_inside_thread
    called = false
    pr = Proc.new { called = true }
    thread = Thread.new(&pr)
    thread.join
    assert called, "proc not called"
end

=== Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of the block.
def test_stale_eh
  obj_under_test = Something.new

  refute obj_under_test.stale?

  Time.stub :now, Time.at(0) do  # stub goes away once the block is done
    assert obj_under_test.stale?
  end
end
end

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

def obj_under_test.fake_method
  ...
end
end

### Running Your Tests

Ideally, you’ll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don’t have to:

```
% ruby -Ilib:test test/minitest/test_minitest_test.rb
Run options: --seed 37685

# Running:

................................................................. (etc)

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips
```

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with `--help`:

```
% ruby -Ilib:test test/minitest/test_minitest_test.rb --help
minitest options:
  -h, --help Display this help.
  -s, --seed SEED Sets random seed. Also via env. Eg: SEED=n rake
  -v, --verbose Verbose. Show progress processing files.
  -n, --name PATTERN Filter run on /regexp/ or string.
  -e, --exclude PATTERN Exclude /regexp/ or string from run.

Known extensions: pride, autotest
  -p, --pride Pride. Show your testing pride!
```
== Writing Extensions

To define a plugin, add a file named minitest/XXX_plugin.rb to your project/gem. That file must be discoverable via ruby's LOAD_PATH (via rubygem's or otherwise). Minitest will find and require that file using Gem.find_files. It will then try to call +plugin_XXX_init+ during startup. The option processor will also try to call +plugin_XXX_options+ passing the OptionParser instance and the current options hash. This lets you register your own command-line options. Here's a totally bogus example:

# minitest/bogus_plugin.rb:

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
      options[:myci_addr] = get_myci_addr
      options[:myci_port] = get_myci_port
    end
  end

  def self.plugin_bogus_init(options)
    self.reporter << MyCI.new(options) if options[:myci]
  end
end

=== Adding custom reporters

Minitest uses composite reporter to output test results using multiple reporter instances. You can add new reporters to the composite during the init_plugins phase. As we saw in +plugin_bogus_init+ above, you simply add your reporter instance to the composite via <<.

+AbstractReporter+ defines the API for reporters. You may subclass it and override any method you want to achieve your desired behavior.

start :: Called when the run has started.
record :: Called for each result, passed or otherwise.
report :: Called at the end of the run.
passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

# minitest/bogus_plugin.rb
module Minitest

class MyCI < AbstractReporter
  attr_accessor :results, :addr, :port

  def initialize options
    self.results = []
    self.addr = options[:myci_addr]
    self.port = options[:myci_port]
  end

  def record result
    self.results << result
  end

  def report
    CI.connect(addr, port).send_results self.results
  end

end

# code from above...
end

== FAQ

=== How to test SimpleDelegates?

The following implementation and test:

class Worker < SimpleDelegator
  def work
    end
end

describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do
    @worker.must_respond_to :work
  end
end

outputs a failure:

1) Failure:
Worker#test_0001_must respond to work [bug11.rb:16]:
Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.
Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject. Expectations are put on Object (one level down) so the Worker (SimpleDelegate) hits +method_missing+ and delegates down to the +Object.new+ instance. That object doesn't respond to work so the test fails.

You can bypass <tt>SimpleDelegate#method_missing</tt> by extending the worker with <tt>Minitest::Expectations</tt>. You can either do that in your setup at the instance level, like:

```ruby
before do
  @worker = Worker.new(Object.new)
  @worker.extend Minitest::Expectations
end
```

or you can extend the Worker class (within the test file!), like:

```ruby
class Worker
  include ::Minitest::Expectations
end
```

=== How to share code across test classes?

Use a module. That's exactly what they're for:

```ruby
module UsefulStuff
  def useful_method
    # ...
  end
end

describe Blah do
  include UsefulStuff
  def test_whatever
    # useful_method available here
  end
end
```

Remember, +describe+ simply creates test classes. It's just ruby at the end of the day and all your normal Good Ruby Rules (tm) apply. If you want to extend your test using setup/teardown via a module, just make sure you ALWAYS call super. before/after automatically call super for you, so make sure you don't do it twice.

=== How to run code before a group of tests?
Use a constant with begin...end like this:

describe Blah do
  SETUP = begin
    # ... this runs once when describe Blah starts
  end
  # ...
end

This can be useful for expensive initializations or sharing state.
Remember, this is just ruby code, so you need to make sure this
technique and sharing state doesn't interfere with your tests.

=== Why am I seeing <tt>uninitialized constant MiniTest::Test (NameError)</tt>?

Are you running the test with Bundler (e.g. via <tt>bundle exec</tt>)? If so,
in order to require minitest, you must first add the <tt>gem 'minitest'</tt>
to your Gemfile and run +bundle+. Once it's installed, you should be
able to require minitest and run your tests.

== Prominent Projects using Minitest:

* arel
* journey
* mime-types
* nokogiri
* rails (active_support et al)
* rake
* rdoc
* ...and of course, everything from seattle.rb...

== Developing Minitest:

=== Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is
often CP850, but can affect any platform.
Minitest can run test suites using any Encoding, but to run Minitest's
own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

```ruby
--- expected
+++ actual
@@ -1,2 +1,3 @@
 # encoding: UTF-8
 -"Expected \w+ to not match \"blah blah blah\"."
 +"Expected \w+ to not match # encoding: UTF-8
```
To check your current encoding, run:

```
ruby -e 'puts Encoding.default_external'
```

If your output is something other than UTF-8, you can set the RUBYOPTS env variable to a value of `-Eutf-8`. Something like:

```
RUBYOPT='-Eutf-8' ruby -e 'puts Encoding.default_external'
```

Check your OS/shell documentation for the precise syntax (the above will not work on a basic Windows CMD prompt, look for the SET command). Once you've got it successfully outputing UTF-8, use the same setting when running rake in Minitest.

```text
=== Minitest's own tests require GNU (or similar) diff.
```

This is also a problem primarily affecting Windows developers. PowerShell has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:

4) Failure:  
TestMinitestUnitTestCase#test_assert_equal_different_long  
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:936]:  
Expected: "--- expected
+++ actual
@@ -1 +1 @@
-"hahahahahahahahahahahahahahahahahahahaha"
+"blahblahblahblahblahblahblahblahblahblahblah"
"

Actual: "Expected: "hahahahahahahahahahahahahahahahahahahaha"
  Actual: "blahblahblahblahblahblahblahblahblah"
"

5) Failure:  
TestMinitestUnitTestCase#test_assert_equal_different_collection_hash_hex_invisible  
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:845]:  
Expected: "No visible difference in the Hash#inspect output.\nYou should look at the implementation of #== on Hash or its members.\n{1=>#<Object:0xXXXXXX> }"

Actual: "Expected: {1=>#<Object:0x0000003ba0470> } Actual: {1=>#<Object:0x0000003ba0448> }"

If you use Cygwin or MSYS2 or similar there are packages that include a GNU diff for Windows. If you don't, you can download GNU diffutils from http://gnuwin32.sourceforge.net/packages/diffutils.htm

(make sure to add it to your PATH).

You can make sure it's installed and path is configured properly with:
diff.exe -v

There are multiple lines of output, the first should be something like:

diff (GNU diffutils) 2.8.1

If you are using PowerShell make sure you run diff.exe, not just diff, which will invoke the PowerShell built in function.

== Known Extensions:

capybara_minitest_spec :: Bridge between Capybara RSpec matchers and Minitest::Spec expectations (e.g. `<tt>page.must_have_content("Title")</tt>`).
color_pound_spec_reporter :: Test names print Ruby Object types in color with your Minitest Spec style tests.
minispec-metadata :: Metadata for describe/it blocks & CLI tag filter. E.g. `<tt>it "requires JS driver", js: true do</tt> & `<tt>ruby test.rb --tag js</tt>` runs tests tagged :js.
minispec-rails :: Minimal support to use Spec style in Rails 5+.
minitest-around :: Around block for minitest. An alternative to setup/teardown dance.
minitest-assert_errors :: Adds Minitest assertions to test for errors raised or not raised by Minitest itself.
minitest-autotest :: autotest is a continuous testing facility meant to be used during development.
minitest-bacon :: minitest-bacon extends minitest with bacon-like functionality.
minitest-bang :: Adds support for RSpec-style let! to immediately invoke let statements before each test.
minitest-bisect :: Helps you isolate and debug random test failures.
minitest-blink1_reporter :: Display test results with a Blink1.
minitest-capistrano :: Assertions and expectations for testing Capistrano recipes.
minitest-capybara :: Capybara matchers support for minitest unit and spec.
minitest-chef-handler :: Run Minitest suites as Chef report handlers
minitest-ci :: CI reporter plugin for Minitest.
minitest-context :: Defines contexts for code reuse in Minitest specs that share common expectations.
minitest-debugger :: Wraps assert so failed assertions drop into the ruby debugger.
minitest-display :: Patches Minitest to allow for an easily configurable output.
minitest-documentation :: Minimal documentation format inspired by rspec's.
minitest-doc_reporter :: Detailed output inspired by rspec's documentation format.
minitest-emoji :: Print out emoji for your test passes, fails, and
skips.

minitest-english :: Semantically symmetric aliases for assertions and expectations.

minitest-excludes :: Clean API for excluding certain tests you don't want to run under certain conditions.

minitest-fail-fast :: Reimplements RSpec's "fail fast" feature

minitest-filecontent :: Support unit tests with expectation results in files.
   Differing results will be stored again in files.

minitest filesystem :: Adds assertion and expectation to help testing filesystem contents.

minitest-firemock :: Makes your Minitest mocks more resilient.

minitest-focus :: Focus on one test at a time.

minitest-gcstats :: A minitest plugin that adds a report of the top tests by number of objects allocated.

minitest-great_expectations :: Generally useful additions to minitest's assertions and expectations.

minitest-growl :: Test notifier for minitest via growl.

minitest-happy :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!

minitest-have_tag :: Adds Minitest assertions to test for the existence of HTML tags, including contents, within a provided string.

minitest-hooks :: Around and before_all/after_all/around_all hooks

minitest-hyper :: Pretty, single-page HTML reports for your Minitest runs

minitest-implicit-subject :: Implicit declaration of the test subject.

minitest-instrument :: Instrument ActiveSupport::Notifications when test method is executed.

minitest-instrument-db :: Store information about speed of test execution provided by minitest-instrument in database.

minitest-junit :: JUnit-style XML reporter for minitest.

minitest-keyword :: Use Minitest assertions with keyword arguments.

minitest-libnotify :: Test notifier for minitest via libnotify.

minitest-line :: Run test at line number.

minitest-logger :: Define assert_log and enable minitest to test log messages.
   Supports Logger and Log4r::Logger.

minitest-macruby :: Provides extensions to minitest for macruby UI testing.

minitest-matchers :: Adds support for RSpec-style matchers to minitest.

minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec, but without any expectation infections.

minitest-metadata :: Annotate tests with metadata (key-value).

minitest-mongoid :: Mongoid assertion matchers for Minitest.

minitest-must_not :: Provides must_not as an alias for wont in Minitest.

minitest-optional_retry :: Automatically retry failed test to help with flakiness.

minitest-osx :: Reporter for the Mac OS X notification center.

minitest-parallel_fork :: Fork-based parallelization

minitest-parallel-db :: Run tests in parallel with a single database.

minitest-power_assert :: PowerAssert for Minitest.
minitest-predicates :: Adds support for .predicate? methods.
minitest-profile :: List the 10 slowest tests in your suite.
minitest-rails :: Minitest integration for Rails 3.x.
minitest-rails-capybara :: Capybara integration for Minitest::Rails.
minitest-reporters :: Create customizable Minitest output formats.
minitest-rg :: Colored red/green output for Minitest.
minitest-rspecMocks :: Use RSpec Mocks with Minitest.
minitest-server :: minitest-server provides a client/server setup with your minitest process, allowing your test run to send its results directly to a handler.
minitest-sequel :: Minitest assertions to speed-up development and testing of Ruby Sequel database setups.
minitest-sharedDescription :: Support for shared specs and shared spec subclasses
minitest-shouldSyntax :: RSpec-style <tt>x.should == y</tt> assertions for Minitest.
minitest-shouldify :: Adding all manner of shoulds to Minitest (bad idea)
minitest-snail :: Print a list of tests that take too long
minitest-spec-context :: Provides rspec-ish context method to Minitest::Spec.
minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g. expect(sequences).to_include :celery_man).
minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.
minitest-spec-rails :: Drop in Minitest::Spec superclass for ActiveSupport::TestCase.
minitest-sprint :: Runs (Get it? It's fast!) your tests and makes it easier to rerun individual failures.
minitest-stately :: Find leaking state between tests
minitest-stub_any_instance :: Stub any instance of a method on the given class for the duration of a block.
minitest-stub-const :: Stub constants for the duration of a block.
minitest-tags :: Add tags for minitest.
minitest-unordered :: Adds a new assertion to minitest for checking the contents of a collection, ignoring element order.
minitest-vcr :: Automatic cassette managment with Minitest::Spec and VCR.
minitest_owrapper :: Get tests results as a TestResult object.
minitest_should :: Shoulda style syntax for minitest test::unit.
minitest_tu_shim :: Bridges between test/unit and minitest.
mongoid-minitest :: Minitest matchers for Mongoid.
pry-rescue :: A pry plugin w/ minitest support. See pry-rescue/minitest.rb.
rspec2minitest :: Easily translate any RSpec matchers to Minitest assertions and expectations.

== Unknown Extensions:
Authors... Please send me a pull request with a description of your minitest extension.

* assay-minitest
* detroit-minitest
* em-minitest-spec
* flexmock-minitest
* guard-minitest
* guard-minitest-decisiv
* minitest-activemodel
* minitest-ar-assertions
* minitest-capybara-unit
* minitest-colorer
* minitest-deluxe
* minitest-extra-assertions
* minitest-rails-shoulda
* minitest-spec
* minitest-spec-should
* minitest-sugar
* spork-minitest

== Minitest related goods


== REQUIREMENTS:

* Ruby 1.8.7+. No magic is involved. I hope.
* NOTE: 1.8 and 1.9 will be dropped in minitest 6+.

== INSTALL:

    sudo gem install minitest

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically pull it in. If not, you'll need to do it yourself:

    gem "minitest"     # ensures you're using the gem, and not the built-in MT
    require "minitest/autorun"

    # ... usual testing stuffs ...

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but don't install the gem contents in the gem path. This messes up Gem.find_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.
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Found in path(s):
* /opt/cola/permits/1110790377_1606854384.85/0/minitest-5-11-3-4-gem/data-tar-gz/README.rdoc

1.3188 minizlib 2.1.2
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==

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1.3189 zulu 8.58.0.13-1

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1.3192 validate-npm-package-license 3.0.4

1.3192.1 Available under license:

validate-npm-package-license

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

Give me a string and I'll tell you if it's a valid npm package license string.

```
```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```
```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```
```javascript
assert.deepEqual(
valid('Apache 2.0'),
{
  validForOldPackages: false,
  validForNewPackages: false,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
    'license is similar to the valid expression "Apache-2.0"'
  ]
}
```
SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0-only OR BSD-2-Clause)'),
  validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
  ],
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
  }
);```
If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
    validForNewPackages: true,
    validForOldPackages: true,
    unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```
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- Chris McDonough, 2005-12-18

- Tres Seaver, 2006-02-09

- Jorge Puente Sarrn, 2012-11-27

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1.3206 godbus v5.0

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1.3207 libogg 1.3.2 1
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1.3208 python-debian 0.1.32

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#!/usr/bin/python

# vim: fileencoding=utf-8
#
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```python
# Check the format and dumpability of debian/copyright filenames on stdin.

Usage:

    find /tmp/packages -type f -name copyright | ./check_parse_and_dump.py

The --suppress_warnings and --summary flags can be used to make the program
output less verbose.

```
with io.open(filename, mode='rt', encoding='utf-8') as f:
    try:
        c = copyright.Copyright(f)
    except Exception as e:
        problems.setdefault((1, 'Parse failures'), []).append(
            (filename, e))
        continue
    try:
        c.dump()
    except Exception as e:
        problems.setdefault((2, 'Dump failures'), []).append(
            (filename, e))
    if not c.header.known_format():
        problems.setdefault((3, 'Unknown format'), []).append(
            (filename, c.header.format))

invalid_globs = []
globs_with_leading_dot_slash = []
globs_with_trailing_comma = []
globs_with_double_star = []
for p in c.all_files_paragraphs():
    try:
        p.files_pattern()
    except Exception as e:
        invalid_globs.append(e)
    for glob in p.files:
        if glob.startswith('./'):
            globs_with_leading_dot_slash.append(glob)
        if glob.endswith(', '):
            globs_with_trailing_comma.append(glob)
        if '**' in glob:
            globs_with_double_star.append(glob)

if invalid_globs:
    problems.setdefault((4, 'Invalid glob'), []).append(
        (filename, invalid_globs))
if globs_with_leading_dot_slash:
    problems.setdefault((5, 'Globs with leading /'), []).append(
        (filename, globs_with_leading_dot_slash))
if globs_with_trailing_comma:
    problems.setdefault((6, 'Globs with trailing ,'), []).append(
        (filename, globs_with_trailing_comma))
if globs_with_double_star:
    problems.setdefault((7, 'Globs with **'), []).append(
        (filename, globs_with_double_star))
Utilities for parsing and creating machine-readable debian/copyright files.

The specification for the format (also known as DEP5) is available here:
https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Start from the Copyright docstring for usage information.

```python
from __future__ import unicode_literals
import collections
import itertools
import io
import re
import warnings
from debian import deb822

_CURRENT_FORMAT = (}
```
class Error(Exception):
    """Base class for exceptions in this module."""

class NotMachineReadableError(Error):
    """Raised when the input is not a machine-readable debian/copyright file."""

class Copyright(object):
    """Represents a debian/copyright file.

A Copyright object contains a Header paragraph and a list of additional Files or License paragraphs. It provides methods to iterate over those paragraphs, in addition to adding new ones. It also provides a mechanism for finding the Files paragraph (if any) that matches a particular filename.

Typical usage:

with io.open('debian/copyright', 'rt', encoding='utf-8') as f:
    c = copyright.Copyright(f)

    header = c.header
    # Header exposes standard fields, e.g.
    print('Upstream name: ', header.upstream_name)
    lic = header.license
    if lic:
        print('Overall license: ', lic.synopsis)
    # You can also retrieve and set custom fields.
    header['My-Special-Field'] = 'Very special'

    # Find the license for a given file.
    paragraph = c.find_files_paragraph('debian/rules')
    if paragraph:
        print('License for debian/rules: ', paragraph.license)

    # Dump the result, including changes, to another file.
    with io.open('debian/copyright.new', 'wt', encoding='utf-8') as f:
        c.dump(f=f)
It is possible to build up a Copyright from scratch, by modifying the header and using add_files_paragraph and add_license_paragraph. See the associated method docstrings.

```python
def __init__(self, sequence=None, encoding='utf-8'):
    """Initializer.

    :param sequence: Sequence of lines, e.g. a list of strings or a file-like object. If not specified, a blank Copyright object is initialized.
    :param encoding: Encoding to use, in case input is raw byte strings.
    It is recommended to use unicode objects everywhere instead, e.g. by opening files in text mode.

    Raises:
    NotMachineReadableError if 'sequence' does not contain a machine-readable debian/copyright file.
    """
    super(Copyright, self).__init__()

    self.__paragraphs = []

    if sequence is not None:
        paragraphs = list(deb822.Deb822.iter_paragraphs(
            sequence=sequence, encoding=encoding))
        if not paragraphs:
            raise NotMachineReadableError('no paragraphs in input')
        self.__header = Header(paragraphs[0])
        for i in range(1, len(paragraphs)):
            p = paragraphs[i]
            if 'Files' in p:
                p = FilesParagraph(p)
            elif 'License' in p:
                p = LicenseParagraph(p)
            else:
                warnings.warn('Non-header paragraph has neither "Files"
                nor "License" fields')
                self.__paragraphs.append(p)
            else:
                self.__header = Header()

    @property
def header(self):
        """The file header paragraph."""
        return self.__header
```
@header.setter
def header(self, hdr):
    if not isinstance(hdr, Header):
        raise TypeError('value must be a Header object')
    self.__header = hdr

def all_paragraphs(self):
    """Returns an iterator over all paragraphs (header, Files, License).
    The header (returned first) will be returned as a Header object; file
    paragraphs as FilesParagraph objects; license paragraphs as
    LicenseParagraph objects.
    """
    return itertools.chain([self.header], (p for p in self.__paragraphs))

def __iter__(self):
    """Iterate over all paragraphs
    see all_paragraphs() for more information
    """
    return self.all_paragraphs()

def all_files_paragraphs(self):
    """Returns an iterator over the contained FilesParagraph objects."""
    return (p for p in self.__paragraphs if isinstance(p, FilesParagraph))

def find_files_paragraph(self, filename):
    """Returns the FilesParagraph for the given filename.
    In accordance with the spec, this method returns the last FilesParagraph
    that matches the filename. If no paragraphs matched, returns None.
    """
    result = None
    for p in self.all_files_paragraphs():
        if p.matches(filename):
            result = p
    return result

def add_files_paragraph(self, paragraph):
    """Adds a FilesParagraph to this object.
    The paragraph is inserted directly after the last FilesParagraph (which
    might be before a standalone LicenseParagraph).
    """
    if not isinstance(paragraph, FilesParagraph):
        raise TypeError('paragraph must be a FilesParagraph instance')
last_i = -1
for i, p in enumerate(self.__paragraphs):
    if isinstance(p, FilesParagraph):
        last_i = i
self.__paragraphs.insert(last_i + 1, paragraph)

def all_license_paragraphs(self):
    """Returns an iterator over standalone LicenseParagraph objects."""
    return (p for p in self.__paragraphs if isinstance(p, LicenseParagraph))

def add_license_paragraph(self, paragraph):
    """Adds a LicenseParagraph to this object.

    The paragraph is inserted after any other paragraphs.
    """
    if not isinstance(paragraph, LicenseParagraph):
        raise TypeError('paragraph must be a LicenseParagraph instance')
    self.__paragraphs.append(paragraph)

def dump(self, f=None):
    """Dumps the contents of the copyright file.

    If f is None, returns a unicode object. Otherwise, writes the contents
to f, which must be a file-like object that is opened in text mode
(i.e. that accepts unicode objects directly). It is thus up to the
caller to arrange for the file to do any appropriate encoding.
"""
    return_string = False
    if f is None:
        return_string = True
        f = io.StringIO()
    self.header.dump(f, text_mode=True)
    for p in self.__paragraphs:
        f.write('
')
        p.dump(f, text_mode=True)
    if return_string:
        return f.getvalue()

def _single_line(s):
    """Returns s if it is a single line; otherwise raises ValueError."""
    if '\n' in s:
        raise ValueError('must be single line')
    return s

class _LineBased(object):

"""Namespace for conversion methods for line-based lists as tuples."""
# TODO(jsw): Expose this somewhere else? It may have more general utility.

@staticmethod
def from_str(s):
    """Returns the lines in 's', with whitespace stripped, as a tuple."""
    return tuple(v for v in
        (line.strip() for line in (s or '').strip().splitlines())
        if v)

@staticmethod
def to_str(seq):
    """Returns the sequence as a string with each element on its own line.
    If 'seq' has one element, the result will be on a single line.
    Otherwise, the first line will be blank.
    """
    l = list(seq)
    if not l:
        return None
    def process_and_validate(s):
        s = s.strip()
        if not s:
            raise ValueError('values must not be empty')
        if 'n' in s:
            raise ValueError('values must not contain newlines')
        return s
    if len(l) == 1:
        return process_and_validate(l[0])
    tmp = ['']
    for s in l:
        tmp.append(' ' + process_and_validate(s))
    return '\n'.join(tmp)

class _SpaceSeparated(object):
    """Namespace for conversion methods for space-separated lists as tuples."""
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    _has_space = re.compile(r'\s')

    @staticmethod
def from_str(s):
        """Returns the values in s as a tuple (empty if only whitespace)."""
        return tuple(v for v in (s or '').split() if v)
@classmethod
def to_str(cls, seq):
    """Returns the sequence as a space-separated string (None if empty)."""
    l = list(seq)
    if not l:
        return None
    tmp = []
    for s in l:
        if cls._has_space.search(s):
            raise ValueError('values must not contain whitespace')
        s = s.strip()
        if not s:
            raise ValueError('values must not be empty')
        tmp.append(s)
    return ' '.join(tmp)

# TODO(jsw): Move multiline formatting/parsing elsewhere?

def format_multiline(s):
    """Formats multiline text for insertion in a Deb822 field.
    
    Each line except for the first one is prefixed with a single space. Lines
    that are blank or only whitespace are replaced with '.
    """
    if s is None:
        return None
    return format_multiline_lines(s.splitlines())

def format_multiline_lines(lines):
    """Same as format_multiline, but taking input pre-split into lines."""
    out_lines = []
    for i, line in enumerate(lines):
        if i != 0:
            if not line.strip():
                line = '.
            line = '' + line
        out_lines.append(line)
    return 'n'.join(out_lines)

def parse_multiline(s):
    """Inverse of format_multiline.
    
    Technically it can't be a perfect inverse, since format_multiline must
    replace all-whitespace lines with ' '. Specifically, this function:"
    pass
- Does nothing to the first line
- Removes first character (which must be ' ') from each proceeding line.
- Replaces any line that is '.' with an empty line.

```python
if s is None:
    return None
return '
'.join(parse_multiline_as_lines(s))
```

def parse_multiline_as_lines(s):
    """Same as parse_multiline, but returns a list of lines.
    (This is the inverse of format_multiline_lines.)"
    
    lines = s.splitlines()
    for i, line in enumerate(lines):
        if i == 0:
            continue
        if line.startswith(' '):
            line = line[1:]
        else:
            raise ValueError('continued line must begin with " "')
        if line == '.':
            line = ''
        lines[i] = line
    return lines

class License(collections.namedtuple('License', 'synopsis text')):
    """Represents the contents of a License field. Immutable.""

    def __new__(cls, synopsis, text=' ')
        """Creates a new License object."
        
        :param synopsis: The short name of the license, or an expression giving
            alternatives. (The first line of a License field.)
        :param text: The full text of the license, if any (may be None). The
            lines should not be mangled for "deb822"-style wrapping - i.e. they
            should not have whitespace prefixes or single '.' for empty lines.
        """
        return super(License, cls).__new__(cls, synopsis=_single_line(synopsis), text=(text or ''))

    @classmethod
    def from_str(cls, s):
        if s is None:
            return None

        if s
            return None
        return cls(synopsis=_single_line(synopsis), text=text or '')
lines = parse_multiline_as_lines(s)
if not lines:
    return cls('')
return cls(lines[0], text='\n'.join(itertools.islice(lines, 1, None)))

def to_str(self):
    return format_multiline_lines([self.synopsis] + self.text.splitlines())

# TODO(jsw): Parse the synopsis?
# TODO(jsw): Provide methods to look up license text for known licenses?

def globs_to_re(globs):
    r'''Returns an re object for the given globs.

    Only * and ? wildcards are supported. Literal * and ? may be matched via
    \* and \?, respectively. A literal backslash is matched \. Any other
    character after a backslash is forbidden.

    Empty globs match nothing.

    Raises ValueError if any of the globs is illegal.
    '''
    buf = io.StringIO()
    for i, glob in enumerate(globs):
        if i != 0:
            buf.write('|')
        i = 0
        n = len(glob)
        while i < n:
            c = glob[i]
            i += 1
            if c == '*':
                buf.write('.*')
            elif c == '?':
                buf.write('.')
            elif c == '\':
                if i < n:
                    c = glob[i]
                    i += 1
                else:
                    raise ValueError('single backslash not allowed at end')
                if c in r'\*?':
                    buf.write(re.escape(c))
                else:
                    raise ValueError('invalid escape sequence: \%s' % c)
            else:
                buf.write(re.escape(c))
# Patterns must be anchored at the end of the string. (We use \Z instead
# of $ so that this works correctly for filenames including \n.)
buf.write(r'\Z')
return re.compile(buf.getvalue(), re.MULTILINE | re.DOTALL)

class FilesParagraph(deb822.RestrictedWrapper):
    """Represents a Files paragraph of a debian/copyright file.

    This kind of paragraph is used to specify the copyright and license for a
    particular set of files in the package.
    """

def __init__(self, data, _internal_validate=True):
    super(FilesParagraph, self).__init__(data)

    if _internal_validate:
        if 'Files' not in data:
            raise ValueError('"Files" field required')
        # For the other "required" fields, we just warn for now. Perhaps
        # these should be upgraded to exceptions (potentially protected by
        # a "strict" param).
        if 'Copyright' not in data:
            warnings.warn('Files paragraph missing Copyright field')
        if 'License' not in data:
            warnings.warn('Files paragraph missing License field')

        if not self.files:
            warnings.warn('Files paragraph has empty Files field')

    self.__cached_files_pat = (None, None)

@classmethod
def create(cls, files, copyright, license):
    """Create a new FilesParagraph from its required parts.

    :param files: The list of file globs.
    :param copyright: The copyright for the files (free-form text).
    :param license: The Licence for the files.
    """
    p = cls(deb822.Deb822(), _internal_validate=False)
    p.files = files
    p.copyright = copyright
    p.license = license
    return p

    def files_pattern(self):
Returns a regular expression equivalent to the Files globs.

Caches the result until files is set to a different value.

Raises ValueError if any of the globs are invalid.

```python
files_str = self['files']
if self.__cached_files_pat[0] != files_str:
    self.__cached_files_pat = (files_str, globs_to_re(self.files))
return self.__cached_files_pat[1]
```

def matches(self, filename):
    """Returns True iff filename is matched by a glob in Files.""
    pat = self.files_pattern()
    return pat.match(filename) is not None
```

```python
files = deb822.RestrictedField(
    'Files', from_str=_SpaceSeparated.from_str,
    to_str=_SpaceSeparated.to_str, allow_none=False)
copyright = deb822.RestrictedField('Copyright', allow_none=False)
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)
comment = deb822.RestrictedField('Comment')
```

class LicenseParagraph(deb822.RestrictedWrapper):
    """Represents a standalone license paragraph of a debian/copyright file.

Minimally, this kind of paragraph requires a 'License' field and has no 'Files' field. It is used to give a short name to a license text, which can be referred to from the header or files paragraphs.

""

    def __init__(self, data, _internal_validate=True):
        super(LicenseParagraph, self).__init__(data)
        if _internal_validate:
            if 'License' not in data:
                raise ValueError('"License" field required')
            if 'Files' in data:
                raise ValueError('input appears to be a Files paragraph')
```

```python
@classmethod
def create(cls, license):
    """Returns a LicenseParagraph with the given license.""
```
if not isinstance(license, License):
    raise TypeError('license must be a License instance')
paragraph = cls(deb822.Deb822(), _internal_validate=False)
paragraph.license = license
return paragraph

# TODO(jsw): Validate that the synopsis of the license is a short name or
# short name with exceptions (not an alternatives expression). This
# requires help from the License class.
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)

comment = deb822.RestrictedField('Comment')

# Hide 'Files'.
__files = deb822.RestrictedField('Files')

class Header(deb822.RestrictedWrapper):
    """Represents the header paragraph of a debian/copyright file.

    Property values are all immutable, such that in order to modify them you
    must explicitly set them (rather than modifying a returned reference).
    """

def __init__(self, data=None):
    """Initializer.

    :param parsed: A deb822.Deb822 object for underlying data. If None, a
    new one will be created.
    """
    if data is None:
        data = deb822.Deb822()
    data['Format'] = _CURRENT_FORMAT

    if 'Format-Specification' in data:
        warnings.warn('use of deprecated "Format-Specification" field;
        ' rewriting as "Format")
        data['Format'] = data['Format-Specification']
        del data['Format-Specification']

    super(Header, self).__init__(data)

    fmt = self.format
    if fmt is None:
        raise NotMachineReadableError(
            'input is not a machine-readable debian/copyright')
if fmt not in _KNOWN_FORMATS:
    warnings.warn('format not known: %r' % fmt)

def known_format(self):
    """Returns True iff the format is known."""
    return self.format in _KNOWN_FORMATS

def current_format(self):
    """Returns True iff the format is the current format."""
    return self.format == _CURRENT_FORMAT

format = deb822.RestrictedField(
    'Format', to_str=_single_line, allow_none=False)

upstream_name = deb822.RestrictedField(
    'Upstream-Name', to_str=_single_line)

upstream_contact = deb822.RestrictedField(
    'Upstream-Contact', from_str=_LineBased.from_str,
    to_str=_LineBased.to_str)

source = deb822.RestrictedField('Source')

disclaimer = deb822.RestrictedField('Disclaimer')

comment = deb822.RestrictedField('Comment')

license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str)

copyright = deb822.RestrictedField('Copyright')

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: python-debian
Upstream-Contact: pkg-python-debian-maint@lists.alioth.debian.org
Source: http://anonscm.debian.org/cgit/pkg-python-debian/python-debian.git

Files: *
Copyright: Debian python-debian Maintainers (see debian/control for maintainer names)
License: GPL-2+

Files: lib/deb822.py lib/debian/deb822.py lib/debian/tests/test_deb822.py
Copyright: Copyright (C) 2005-2006 dann frazier <dannf@dannf.org>
      Copyright (C) 2006-2010 John Wright <john@johnwright.org>
      Copyright (C) 2006 Adeodato Sim <dato@net.com.org.es>
      Copyright (C) 2008 Stefano Zacchiroli <zack@upsilon.cc>
      Copyright (C) 2014 Google, Inc.
License: GPL-2+
Files:
examples/changelog/*
lib/debian/changelog.py
README.changelog
setup.py.in
lib/debian/tests/test_changelog.py

Copyright: Copyright (C) 2006-2007 James Westby <jw+debian@jameswestby.net>
Copyright (C) 2008 Canonical Ltd.
License: GPL-2+
Comment: lib/debian/changelog.py's parsing code is based on that from dpkg which is:
Copyright 1996 Ian Jackson
Copyright 2005 Frank Lichtenheld <frank@lichtenheld.de>
and licensed under the same license.

Files:
lib/debian/debian_support.py
lib/debian/tests/test_debian_support.py

Copyright: Copyright (C) 2005 Florian Weimer <fw@deneb.enyo.de>
Copyright (C) 2006-2007 James Westby <jw+debian@jameswestby.net>
Copyright (C) 2010 John Wright <jsw@debian.org>
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Files:
examples/debtags/*
lib/debian/debtags.py
lib/debian/doc-debtags
lib/debian/tests/test_debtags.py

Copyright: Copyright (C) 2003-2007 Enrico Zini <enrico@debian.org>
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Files:
examples/debfile/*
lib/debian/arfile.py
lib/debian/debfile.py
lib/debian/tests/test_debfile.py

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Files:
lib/debian/deprecation.py

Copyright: Copyright (C) Ben Finney <ben+debian@benfinney.id.au>
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exmplex/copyright/*
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1.3209 cry-tools 1.19.0-00

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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccooley@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodlea@gmail.com>
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Nick Craig-Wood <nickcw@gmail.com>
Scott Van Woudenberg <scottvw@google.com>
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Alex A. Skinner
Andrew Tunnell-Jones
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Contributors
============

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samuel A. Falvo II</td>
<td><a href="mailto:sam.falvo@rackspace.com">sam.falvo@rackspace.com</a></td>
</tr>
<tr>
<td>Glen Campbell</td>
<td><a href="mailto:glen.campbell@rackspace.com">glen.campbell@rackspace.com</a></td>
</tr>
<tr>
<td>Jesse Noller</td>
<td><a href="mailto:jesse.noller@rackspace.com">jesse.noller@rackspace.com</a></td>
</tr>
<tr>
<td>Jon Perritt</td>
<td><a href="mailto:jon.perritt@rackspace.com">jon.perritt@rackspace.com</a></td>
</tr>
<tr>
<td>Ash Wilson</td>
<td><a href="mailto:ash.wilson@rackspace.com">ash.wilson@rackspace.com</a></td>
</tr>
<tr>
<td>Jamie Hannaford</td>
<td><a href="mailto:jamie.hannaford@rackspace.com">jamie.hannaford@rackspace.com</a></td>
</tr>
<tr>
<td>Don Schenck</td>
<td><a href="mailto:don.schenck@rackspace.com">don.schenck@rackspace.com</a></td>
</tr>
<tr>
<td>Joe Topjian</td>
<td><a href="mailto:joe@topjian.net">joe@topjian.net</a></td>
</tr>
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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
defer teardown()

mux.HandleFunc(`/licenses`, func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprintln(w, `[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]`)})

licenses, _, err := client.Licenses.List()
if err != nil {
    t.Errorf("Licenses.List returned error: %v", err)
}

want := []License{License{
    Key: String("mit"),
    Name: String("MIT"),
    URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
    t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc(`/licenses/mit`, func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprintln(w, `{"key":"mit","name":"MIT"}`)
    })

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
testURLParseError(t, err)
}
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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL  *string `json:"url,omitempty"`
    HTMLURL        *string `json:"html_url",omitempty`
    Featured       *bool  `json:"featured,omitempty"`
    Description    *string `json:"description,omitempty"`
    Category       *string `json:"category,omitempty"`
    Implementation *string `json:"implementation,omitempty"`
    Required       *[]string `json:"required,omitempty"
    Permitted      *[]string `json:"permitted,omitempty"
    Forbidden      *[]string `json:"forbidden,omitempty"`
func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([][]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)
    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }
    return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)
    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }
return license, resp, err
}

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1.3216 ruby-did-you-mean 1.2.0 2

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- Copy files to and from Containers in a cluster
# 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

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

{% method %}

## 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>\`

{% sample lang="yaml" %}
```
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

{% endmethod %}

{% method %}

## 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>\`

{% sample lang="yaml" %}
```
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

{% endmethod %}

{% method %}

## Specify the Container

Specify the Container within a Pod running multiple containers.
- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

### 1.3220 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.3

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```c
/* CMU libssl
 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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1.3222 spf13-pflag 1.0.5

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1.3227 icu 60.2-3ubuntu3.2

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

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

## Bind internal references

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

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

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

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1.3237 javax-ws-rs-api 2.0

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1.3256 pycrypto 2.6.1-8ubuntu2

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Last updated: 2009-02-28

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ISC

1.3258 mitchellh-mapstructure 1.4.1

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1.3259 certifi 2021.05.30

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1.3260 libidn 1.33 2.1ubuntu1.2

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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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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
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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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1.3262 libdate-manip-perl 6.60-1

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# Contributions to the urlib3 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>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* 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 <http://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 <http://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 <http://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

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.
* 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

* Jesse 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@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yyg1ez3@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

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.3281 python3-crypto 2.6.1-8ubuntu2

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~
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Last updated: 2009-02-28

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David Megginson, david@megginson.com
2000-05-05

1.3283 go-control-plane 0.9.7-
0.20200730005029-803dd64f0468

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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name
url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
1.3299 goprotobuf 1.3.1

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1.3300 libnpmfund 2.0.1

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1.3303 apache2-data 2.4.29-1ubuntu4.20

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Apache-Test was originally developed by:

Doug MacEachern <dougm@cpan.org>

Now maintained by:

Fred Moyer <fred@redhotpenguin.com>
Philip M. Gollucci <pgollucci@p6m7g8.com>

with contributions from the following helpful people
(in alphabetical order):

Alessandro Forghieri <Alessandro.Forghieri@think3.com>
David Wheeler <david@kineticode.com>
Gary Benson <gbenson@redhat.com>
Geoffrey Young <geoff@modperlcookbook.org>
Ken Williams <ken@forum.swarthmore.edu>
Randy Kobes <randy@theoryx5.uwinnipeg.ca>
Rick Myers <rik@sumthin.nu>
Stas Bekman <stas@stason.org>
Steve Hay <steve.hay@uk.radan.com>
Steve Piner <stevep@marketview.co.nz>
Tatsuhiko Miyagawa <miyagawa@edge.co.jp>

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This is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language. See
the file Tech.Notes for some information on the internals.
This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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License: Haines
This imagemap module started as a port of the original imagemap.c
written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3
of imagemap.c.

Contributors to this code include:

Kevin Hughes, kevinh@puluahcc.hawaii.edu

Eric Haines, erich@eye.com
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

Randy Terbush, randy@zyzyva.com
port to Apache module format, "base_uri" and support for relative URLs.

James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
   ImapMenu {none, formatted, semiformatted, unformatted}
   ImapDefault {error, nocontent, referer, menu, URL}
   ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
   Old:  directive URL [x,y ...]
   New:  directive URL "Menu text" [x,y ...]
         or:  directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.

- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed
sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server
  configuration instead of globals. (It should be reentrant now but has
  not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a
  list where they're used to set the MIME type in the Apache request
  record.
- Command-line flags have been removed since they will never be used here.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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1.3304 jackson-jaxrs 2.9.9

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### 1.3305 go-jmespath 0.4.0

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# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Aleksandar Dezelin <dezelin@gmail.com>
Aleksandr Lukinykh <a.lukinykh@xsolla.com>
Aleksandr Razumov <ar@cydev.ru>
Alekseev Artem <a.artem060@gmail.com>
Alessandro Arzilli <alessandro.arzilli@gmail.com>
Alessandro Baffa <alessandro.baffa@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alex.brainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Browne <stephenalexbrowne@gmail.com>
Alex Carol <alex.carol.c@gmail.com>
Alex Jin <toalexjin@gmail.com>
Alex Kohler <alexjohnkohler@gmail.com>
Alex Myasoedov <msoedov@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Tokarev <aleksator@gmail.com>
Alex Vaghin <crhyme@gmail.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexd.ch>
Alexander F Rdseth <alexander.rodseth@appeartv.com>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Louir <amil@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@google.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surma.die>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandre.viau.net>
Alexandru Mocioi <brtznr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalexand@google.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Polyakov <zbr@iremap.net>
Ewan Chou <coocood@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faizy Ahmed <ahmedff@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fshahriar@gmail.com>
Federico Bond <federicobond@gmail.com>
Federico Simoncelli <fsimonce@redhat.com>
Fedor Indutny <fedor@indutny.com>
Fedor Korotkiy <dartslon@gmail.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Bnemann <Felix.Buennemann@gmail.com>
Felix Geisendrfer <haimuiba@gmail.com>
Felix Kollmann <fkk@konsorten.de>
Filip Gruszczynski <gruszczynski@gmail.com>
Filip Haglund <drathier@users.noreply.github.com>
Filip Stanis <fstanis@octo.com>
Filippo Valsorda <filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Forster <octo@octo.com>
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>
Florian Weimer <fw@deno.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@octo.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francesco Renzi <rentziass@gmail.com>
Francisco Claude <fclaude@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscossouza@gmail.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <fsomers@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Fredik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @frenkie (6499251) <mail@rhab.de>
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @kazyshr (30496953) <kazyshr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <lgchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @micnncim (21333876) <micnncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @OlgaVIpetrova (44112727) <OVIPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @sairunreddy (21041941) <sairunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh-extc@users.noreply.github.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@gmail.com>
Greg Thelen <gthelen@gmail.com>
Greg Ward <greg@gerg.ca>
Gregoire Delattre <gregoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guillaume J. Charmes <guillaume@charmes.net>
Kieran Colford <kieran@kcolford.com>
Kim Shrier <kshrier@racktopsystems.com>
Kim Yongbin <kybinz@gmail.com>
Kir Kolyshkin <kolyshkin@gmail.com>
Kirill Motkov <Motkov.Kirill@gmail.com>
Kirill Smelkov <kirr@nexedi.com>
Kirk Han <kirk91.han@gmail.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
Klaus Post <klauspost@gmail.com>
Kodie Goodwin <kodiegoodwin@gmail.com>
Koichi Shiraishi <zchee.io@gmail.com>
Koki Ide <niconegoto@yahoo.co.jp>
Komu Wairagu <komuw05@gmail.com>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Kris Kwiatkowski <kris@cloudflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@google.com>
Kristopher Watts <traetox@gmail.com>
Kshitij Saraogi <kshitijssaraogi@gmail.com>
Kun Li <ilikunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelems.net> <kevlar@google.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiiais@gmail.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrylo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lajyos@yahoo.com>
Lakshay Garg <laksh.garg.1996@gmail.com>
Lann Martin <lannm@google.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Martin Kreichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <anty.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulyas <mgulyas86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapliski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <ne@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Paul Ruest <pruest@gmail.com>
Paul Sbarra <Sbarra.Paul@gmail.com>
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
Paul Tyng <paul@paultyng.net>
Paul van Brouwershaven <paul@vanbrouwershaven.com>
Paul Wankadia <junyer@google.com>
Paulo Casaretto <pcasaretto@gmail.com>
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ymkins@gmail.com>
Pawel Knap <pawelknap88@gmail.com>
Pawel Szczur <filemoh@com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Petar Maymournkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@com>
Peter Conerly <pconerly@gmail.com>
Peter Dotchev <dotchev@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@com>
Peter Hoyes <pahoyes@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@miictis.com>
Pter Surnyi <speter.go1@gmail.com>
Pter Szab <pts@com>
Pter Szilgyi <peterke@gmail.com>
Peter Teichman <peterichehman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatatsh.com>
Petr Jediny <petr.jediny@gmail.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Brugesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Mynott <steve.mynott@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeting <steve@stevestreeting.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@gmail.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmuel@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Taesu Pyo <spyotaesu@gmail.com>
Tai Le <letientai299@gmail.com>
Taj Khattr <taj.khattr@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t1@gmail.com>
Todd Wang <toddwang@gmail.com>
Tom Anthony <git@tomanthony.co.uk>
Tom Bergan <tombergan@gmail.com>
Tom Heng <zhm20070928@gmail.com>
Tom Lanyon <tomlanyon@google.com>
Tom Levy <tomlevy93@gmail.com>
Tom Limoncelli <tal@whatexit.org>
Tom Linford <tomlinford@gmail.com>
Tom Payne <twpayne@gmail.com>
Tom Szymanski <tgs@google.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tommy Schaefer <tommy.schaefer@teecom.com>
Tomoya Ishizaki <zaqtomo@gmail.com>
Tonis Tiigi <tonistiigi@gmail.com>
Tony Reix <tony.reix@bull.net>
Tony Walker <walkert.uk@gmail.com>
Tooru Takahashi <tooru.takahashi134@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshihiro Shiino <shiino.toshihiro@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Taco  <ttacon@gmail.com>
Tristan Amini <tamin01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fn.lc>
Troels Thomsen <troels@thomsen.io>
Trung Nguyen <trung.n.k@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuo@gmail.com>
Tyler Bui-Palsulich <tpalsulich@gmail.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Udalov Max <re.udalov@gmail.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangjparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Valentin Vidic <vvidic@valentin-vidic.from.hr>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturaev <vearutop@gmail.com>
Victor Chudnovsky <vchudnov@google.com>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@google.com>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Viniz Rajasheshkar <vinutheraj@gmail.com>
Vish Subramanian <vish@gmail.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara R <r.visweswara@gmail.com>
Vitor De Mario <vitordemario@gmail.com>
Vivek Sekhar <vsekhara@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Kovpak <cn007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotski <vpaprots@ca.ibm.com>
W. Trevor King <swking@tremily.us>
Wade Simmons <wade@wades.im>
Wagner Riffel <wgriffel@gmail.com>
Walter Poupore <wpoupore@gmail.com>
Wander Lairson Costa <wcosta@mozilla.com>
Warren Fernandes <warren.f.fernandes@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@google.com>
Weerasak Chongnguluam <singpor@gmail.com>
Wi Cngru <crvv.mail@gmail.com>
Wei Fu <fhuwei@163.com>
Wei Guangjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Wei Xikai <xykwei@gmail.com>
Weichao Tang <tevic.tt@gmail.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
Yu Heng Zhang <sannita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yuji Yaginuma <yuji.yaginuma@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yugui Sonoda <yugui@google.com>
Yukihiro Nishinaka <gelpinal@gmail.com>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zhokover <paulzhol@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gersham <zachgersh@gmail.com>
Zach Jones <zachj1@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Gersham <zgersham@pivotal.io>
Zak <zrjknill@gmail.com>
Zakatell Kanda <hi@zkanda.io>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zheng Dayu <davidzheng23@gmail.com>
Zheng Xu <zheng.xu@arm.com>
Zhengyu He <hzy@google.com>
Zhongpeng Lin <zpmlin@uber.com>
Zhongtao Chen <chenzhongtao@126.com>
Zhongwei Yao <zhongwei.yao@arm.com>
Zhou Peng <p@ctriple.cn>
Ziad Hatahet <hatahet@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
<a.maksadbek@gmail.com>
<max.faceless.frei@gmail.com>
<hagen1778@gmail.com>
<tbunyk@gmail.com>
<faxriddinjon@gmail.com>
<zs349596@gmail.com>
<bronse1man@gmail.com>

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Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
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type License struct {
    Name string `json:"name,omitempty"`
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package simulator

import ( 
  "github.com/vmware/govmomi/object"
  "github.com/vmware/govmomi/vim25/methods"
  "github.com/vmware/govmomi/vim25/mo"
  "github.com/vmware/govmomi/vim25/soap"
  "github.com/vmware/govmomi/vim25/types"
 )

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
  LicenseKey: "00000-00000-00000-00000-00000",
  EditionKey: "eval",
  Name:       "Evaluation Mode",
  Properties: []types.KeyAnyValue{
    { 
      Key: "feature",
      Value: types.KeyValue{
        Key:    "serialuri:2",
        Value:  "Remote virtual Serial Port Concentrator",
      },
    },
    { 
      Key: "feature",
      Value: types.KeyValue{
        Key:    "dvs",
        Value:  "Remote virtual Serial Port Concentrator",
      },
    },
  }
}
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        m.Self = ref
        m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}
for i, license := range m.Licenses {
    if req.LicenseKey == license.LicenseKey {
        m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
        return body
    }
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

        for i := range m.Licenses {
            license := &m.Licenses[i]

            if req.LicenseKey != license.LicenseKey {
                continue
            }

            body.Res = new(types.UpdateLicenseLabelResponse)

            for j := range license.Labels {
                label := &license.Labels[j]

                if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
                    } else {
                        label.Value = req.LabelValue
                    }
                    return body
                }
            }

            license.Labels = append(license.Labels, types.KeyValue{
                Key:   req.LabelKey,
                Value: req.LabelValue,
            })

            return body
        }

        body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
        return body
    }
}
type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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Andrew Brampton <brampton@gmail.com>
Bill Gray <wgray@gogray.com>
Bill Noon <noon.bill@gmail.com>
Brendan Tracey <tracey.brendan@gmail.com>
Brent Pedersen <bpederse@gmail.com>
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Christophe Meessen <christophe.meessen@gmail.com>
Clayton Northey <clayton.northey@gmail.com>
Dan Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
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David Kleiven <davidkleiven446@gmail.com>
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Delaney Gillilan <delaneygillilan@gmail.com>
Dezmond Goff <goff.dezmond@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
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Facundo Gaich <facugaich@gmail.com>
Fazlul Shahriar <fshahriar@gmail.com>
Francesc Campoy <campoy@golang.org>
Gustaf Johansson <gustaf@pinon.se>
Iakov Davydov <iakov.davydov@unil.ch>
Igor Mikushkin <igormikushkin@gmail.com>
Iskander Sharipov <quasilyte@gmail.com>
Jalem Raj Rohit <jrajrohit33@gmail.com>
James Bell <james@stellentus.com>
James Bowman <james.edward.bowman@gmail.com>
James Holmes <32bitkid@gmail.com>
Janne Snabb <snabb@epipe.com>
Jeff Juozapaitis <jjjuozap@email.arizona.edu>
Jeremy Atkinson <jchatkinson@gmail.com>
Jonas Kahler <jonas@derkahler.de>
Jonas Schulze <jonas.schulze@ovgu.de>
Jonathan J Lawlor <jonathan.lawlor@gmail.com>
Jonathan Reiter <jonreiter@gmail.com>
Jonathan Schroeder <jd.schroeder@gmail.com>
Joseph Watson <jtwatson@linux-consulting.us>
Josh Wilson <josh.craig.wilson@gmail.com>
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Kent English <kent.english@gmail.com>
Kevin C. Zimmerman <kevinczimmerman@gmail.com>
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Lyron Winderbaum <lyron.winderbaum@student.adelaide.edu.au>
Martin Diz <github@martindiz.com.ar>
Matthieu Di Mercurio <matthieu.dimercurio@gmail.com>
Max Halford <maxhalford25@gmail.com>
MinJae Kwon <k239507@gmail.com>
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Nils Wogatzky <nodog@netcologne.de>
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class migration
import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const {
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
    removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
}
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\\>`
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

---

runc

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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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with the Library, with the complete machine-readable "work that
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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to
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1.3331 json-c 0.12.1-1.3ubuntu0.3

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1.3332 golang-protobuf-extensions 1.0.1

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1.3333 tar 1.29b 2ubuntu0.2

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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.f.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Sindelar <adamsh@intel.com>
Adam Thomason <athomason@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aeciocantiasjunior@gmail.com>
Aeneas Rakkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <shpiproger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed Wahed <oneofone@gmail.com>
Ahmet Alp Balkan <ahmethb@google.com>
Ahmet Soormally <ahmet@mangommm.co.uk>
Ahmy Yulrizka <yulrizka@gmail.com>
Aiden Scandella <ai@uber.com>
Ainar Garipov <gugl.zadolbal@gmail.com>
Aishraj Dahal <aishraj@users.noreply.github.com>
Akhil Indurti <contact@akhilindurti.com>
Akihiro Suda <suda.kyoto@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Alan Braithwaite <alan@ipaddr.org>
Alan Donovan <adonovan@google.com>
Alan Shreve <alan@inconshreveable.com>
Albert Nigmatzianov <albertnigma@gmail.com>
Albert Strasheim <fullung@gmail.com>
Albert Yu <yukinying@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>
Aleksa Sarai <cyphar@cyphar.com>
Aleksandar Dezelin <dezelin@gmail.com>
Aleksandr Lukinykh <a.lukinykh@xsolla.com>
Aleksandr Razumov <ar@cydev.ru>
Alekseev Artem <a.artem060@gmail.com>
Alessandro Arzilli <alessandro.arzilli@gmail.com>
Alessandro Baffa <alessandro.baffa@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alex.brainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Browne <stephenalexbrowne@gmail.com>
Alex Carol <alex.carol.c@gmail.com>
Alex Jin <toalexjin@gmail.com>
Alex Kohler <alexjohnkohler@gmail.com>
Alex Myasoedov <msoedov@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Vaghin <crhyme@gmail.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexd.ch>
Alexander F Rodseth <alexander.rodseth@appeartv.com>
Alexander Guz <kalimatases@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Kucherenko <alxkchr@gmail.com>
Anthony Canino <anthony.canino1@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony Fok <foka@debian.org>
Anthony Martin <ality@pbrane.org>
Anthony Sottile <asottile@umich.edu>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Antoine GIRARD <sapk@sapk.fr>
Antoine Martin <antoine97.martin@gmail.com>
Anton Gyllenberg <anton@iki.fi>
Antonin Amand <antoin.amand@gmail.com>
Antonio Antelo <aantelov87@gmail.com>
Antonio Bibiano <antbbn@gmail.com>
Antonio Murdaca <runcom@redhat.com>
Antonio Troina <thoeni@gmail.com>
Apisak Darakananda <pongad@gmail.com>
Aram Hvrneanu <aram@mgk.ro>
Areski Belaid <areski@gmail.com>
Ariel Mashraki <ariel@mashraki.co.il>
Arkadi Pyuro <arkadi@google.com>
Arlo Breault <arlolra@gmail.com>
Arnaud Ysmal <arnaud.ysmal@gmail.com>
Arne Hormann <arnehormann@gmail.com>
Arnout Engelen <arnout@bzst.net>
Aron Nopanen <aron.nopanen@gmail.com>
Arthur Fabre <arthur@arthurfabre.com>
Arthur Khashaev <arthur@khashaev.ru>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvindh Rajesh Tamilmani <art@a-30.net>
Ashish Gandhi <ag@ashishgandhi.org>
Asim Shankar <asimshankar@gmail.com>
Atin Malaviya <amalaviy@akamai.com>
Ato Araki <sato.araki@gmail.com>
Audrey Lim <audreyhl@gmail.com>
Audrius Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Varialus <varialus@gmail.com>
Aurlien Rainone <aurelien.rainone@gmail.com>
Austin Clements <austin@google.com> <aclements@csail.mit.edu>
Avi Flax <avi@timehop.com>
awaw fumin <awawfumin@gmail.com>
Awn Umar <awn@cryptolosophy.io>
Axel Wagner <axel.wagner.hh@googlemail.com>
Ayanamist Yang <ayyanamist@gmail.com>
Aymerrick Jhanne <aymerick@jehanne.org>
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Baiju Muthukadan <baiju.m.mail@gmail.com>
Balaram Makam <bmakam.qdt@qualcommdatacenter.com>
Balazs Lecz <leczb@google.com>
Baokun Lee <nototon@gmail.com>
Bartosz Grzybowski <melkorm@gmail.com>
Bartosz Oler <brtsz@google.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Haines <bhainesva@gmail.com>
Ben Hoyt <benhoyt@gmail.com>
Ben Laurie <ben@links.org> <ben@google.com>
Ben Lubar <ben.lubar@gmail.com>
Ben Lynn <benlynn@gmail.com>
Ben Olive <sionide21@gmail.com>
Ben Schwartz <bemasc@google.com>
Ben Shi <powerman1st@163.com>
Benjamin Black <b@b3k.us>
Benjamin Cable <cable.benjamin@gmail.com>
Benjamin Hsieh <tanookiben@users.noreply.github.com>
Benjamin Prosnitz <bprosnitz@google.com>
Benjamin Wester <bwest@squareup.com>
Benny Siegert <hsiegert@gmail.com>
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Berengar Lehr <Berengar.Lehr@gmx.de>
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>
Bill O'Farrell <bilo@ca.ibm.com>
Bill Prin <wprin@gib.2m.com>
Bill Thiede <couchmoney@gmail.com>
Bill Zissimopoulos <billziss@navimatics.com>
Billie Harold Cleek <bhcleek@gmail.com>
Billy Lynch <wlynch@gmail.com>
Bjorn Tillenius <bjorn@tillenius.me>
Bjorn Tipling <bjorn.tipling@gmail.com>
Blain Smith <rebelgeek@blainsmith.com>
Blake Gentry <blakesgentry@gmail.com>
Blake Mesdag <blakemesdag@gmail.com>
Blake Mizerany <blake.mizerany@gmail.com>
Blixt <me@blixt.nyc>
Bob Briski <rbriski@gmail.com>
Bob Potter <bobby.potter@gmail.com>
Bobby DeSimone <bobbydesimone@gmail.com>
Bobby Powers <bobbypowers@gmail.com>
Boris Nagaev <nagaev@google.com>
Borja Clemente <borja.clemente@gmail.com>
Brad Burch <brad.burch@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <rbjones@google.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Brad Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Brandon Bennett <bbennett@fb.com>
Brandon Gilmore <varz@google.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O'Dea <bod@golang.org>
Brett Cannon <bcannon@gmail.com>
Brett Merrill <brett.j.merrill94@gmail.com>
Brian Dellisanti <briandellisanti@gmail.com>
Brian Downs <brian.downs@gmail.com>
Brian G. Merrell <bgmerrell@gmail.com>
Brian Gitonga Marete <maretetosnix.com> <bgmaretete@gmail.com> <bgm@gmail.com>
Brian Kennedy <btkennedy@gmail.com>
Brian Kessler <brian.m.kessler@gmail.com>
Brian Ketelsen <bketelsen@gmail.com>
Brian Slesinsky <skybrian@gmail.com>
Brian Smith <ohohvi@gmail.com>
Brian Starke <brian.starke@gmail.com>
Bryan Alexander <Kozical@msn.com>
Bryan C. Mills <bcmills@gmail.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Bryan Ford <brynosaurus@gmail.com>
Bulat Gaifullin <gaifullinbf@gmail.com>
Burak Guven <bgguven@gmail.com>
Caine Tighe <arctanofyourface@gmail.com>
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>
Caleb Martinez <accounts@calebmartinez.com>
Caleb Spare <cespare@gmail.com>
Carl Chatfield <carlchatfield@gmail.com>
Carl Henrik Lunde <chlunde@ifi.uio.no>
Carl Jackson <carl@stripe.com>
Carl Johnson <me@carljohnson.net>
Carl Mastrangelo <notcarl.google.com>
Carl Shapiro <cshapiro@gmail.com> <cshapiro@golang.org>
Carlisio Campos <carlisia@grokkingtech.io>
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Carlos Cirello <uldericofilho@gmail.com>
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>
Carlos Souza <carloshsouza@gmail.com>
Carolyn Van Slyck <me@carolynvanslyck.com>
Cary Hull <chull@gmail.com>
Case Nelson <case.nelson@gmail.com>
Christopher Henderson <chris@chenderson.org>
Christopher Koch <chrisko@google.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
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Christopher Swenson <cswenson@gmail.com>
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Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <chresty@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clment Chigot <clement.chigot@atos.net>
Clement Skau <clementskaugmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Nelson <colnnelson@gmail.com>
Colin Rice <clr@google.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Conrado Gouvea <conrado@alvarado.com>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Corey Thomasson <ethom.lists@gmail.com>
Cosmos Nicolaou <cnicolaou@gmail.com>
Costin Chirvasuta <ctin@gmail.com>
Craig Citro <craigcitro@gmail.com>
Cristian Stureu <unclejacksons@gmail.com>
Cuihtlauc ALVARADO <cuihtlauc.alvarado@orange.com>
Cyrill Schumacher <cyrill@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <dmathieu.com>
Damien Neil <dNeil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@gmail.com>
Dan Jacques <dnj@google.com>
Dan Johnson <computerdruid@gmail.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Danil de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@google.com>
David Ndungu <dnjугuna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dsymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Timm <dtimm@pivotal.io>
David Titarenco <david.titarenco@gmail.com>
David Tolpin <david.tolpin@gmail.com>
David Url <david@url.io>
David Volquartz Lebech <david@lebech.info>
David Wimmer <davidlwimmer@gmail.com>
Davies Liu <davies.liu@gmail.com>
Davor Kapsa <davor.kapsa@gmail.com>
Dean Prichard <dean.prichard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Nagorny <denis.nagorny@intel.com>
Dennis Kuhnert <mail.kuhnert@gmail.com>
Denys Honsiorovskyi <honsiorovskyi@gmail.com>
Denys Smirnov <denis.smirnov.91@gmail.com>
Derek Buitenhuis <derek.buitenhuis@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgstyle.net>
Derek Parker <parkerderek86@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Dev Ojha <dojha12@gmail.com>
Dev Zhoujun <dev.zhoujun@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhaivat Pandit <dhaivatpandit@gmail.com>
Dhananjay Nakrani <dhananjayn@gmail.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
DhruvDutt Jadhav <dhruvdutt.jadhav@gmail.com>
Di Xiao <dixiao@gmail.com>
Didier Spezia <didier.06@gmail.com>
Diego Siqueira <diego9889@gmail.com>
Dieter Plaetinck <dieter@raintank.io>
Dimitri Sokolyuk <sokolyuk@gmail.com>
Dimitri Tcaciuc <dtcaciuc@gmail.com>
Dina Garmash <dgrmsh@gmail.com>
Diogo Pinela <diogoid7400@gmail.com>
Dirk Gadsden <dirk@esherido.com>
Diwaker Gupta <diwaker gupta@gmail.com>
Dmitri Popov <operator@cv.dp-net.com>
Dmitri Shuralyov <dmitshur@golang.org> <dmitri@shuralyov.com>
Dmitriy Cherchenko <dcherchenko@gmail.com>
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>
Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com>
Dmitriy Vyukov <dvyukov@google.com>
Dmitry Chestnykh <dchest@gmail.com>
Dmitry Doroginin <doroginin@gmail.com>
Dmitry Neverov <dmitry.neverov@gmail.com>
Dmitry Savintsev <dsavints@gmail.com>
Dmitry Yakunin <nonamezeil@gmail.com>
Domen Ipavec <domen@ipavec.net>
Dominic Green <domingreen1@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Don Byington <don@dbyington.com>
Donald Huang <don.hc@gmail.com>
Dong-hee Na <donghee.92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@gmail.com>
Doug Fawley <dfawley@gmail.com>
Douglas Danger Manley <doug.manley@gmail.com>
Drew Flower <drewvanstone@gmail.com>
Drew Hintz <adhintz@gmail.com>
Duncan Holm <mailto@fralu.org>
Dustin Carlino <dcarlino@gmail.com>
Dustin Herbison <djherbis@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>
Dylan Waits <dylan@waits.io>
Edan Bedrik <3d4nb3@gmail.com>
Eden Li <eden.li@gmail.com>
Eduard Urbach <e.urbach@gmail.com>
Eduardo Ramalho <eduardo.ramalho@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Uggedal <eivind@uggedal.com>
Elbert Flick <elbertfick@gmail.com>
Eldar Rahimberdin <ibeono@gmail.com>
Elena Grahovac <elena@grahovac.me>
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmrl@gmail.com>
Emerson Lin <linyintor@gmail.com>
Emil Hessman <emil@hessman.se>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyuheng@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@google.com>
Heschi Kreinick <heschi@google.com>
Hidetatsu Yaginuma <ygnmhdt@gmail.com>
Hiiko Bengen <bengen@hilluzination.de>
Hiroaki Nakamura <hnakamur@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <ttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Hossein Sheikh Attar <hattar@google.com>
Hsin Tsao <tsao@google.com>
Hsin-Ho Yeh <yhh92u@gmail.com>
Hu Keping <hukeping@huawei.com>
Hugues Bruant <hugues.bruant@gmail.com>
Huy Le <huy.dinh.le.89@gmail.com>
Hyang-Ah Hana Kim <shakim@google.com> <hyangah@gmail.com>
Ian Cottrell <iancottrell@google.com>
Ian Davis <nospam@iandavis.com>
Ian Gedger <ian@loosescre.ws>
Ian Haken <ihaken@netflix.com>
Ian Kent <iankent85@gmail.com>
Ian Lance Taylor <iant@golang.org>
Ian Leue <ian@appboy.com>
Ian Zapolsky <ianzapolsky@gmail.com>
Ibrahim AshShohail <ibra.sho@gmail.com>
Icarus Sparry <golang@icarus.freeuk.com>
Iccha Sethi <icchasethi@gmail.com>
Idora Shinatose <idora.shinatose@gmail.com>
Igor Bernstein <igorbernstein@gmail.com>
Igor Dolzhikov <bluesriverz@gmail.com>
Igor Vashyst <ivashyst@gmail.com>
Igor Zhilianin <igor.zhilianin@gmail.com>
Ilya Tocar <silya.tocar@intel.com>
INADA Naoki <songofacandy@gmail.com>
Inanc Gumus <m@inanc.io>
Ingo Gottwald <in.gottwald@gmail.com>
Ingo Krabbe <ikrabbe.ask@gmail.com>
Ingo Oeser <nightlyone@goolemail.com> <nightlyone@gmail.com>
Ioannis Georgoulas <geototti21@hotmail.com>
Irfan Sharif <irfanahmoudsharif@gmail.com>
Irieda Noboru <irieda@gmail.com>
Isaac Ardis <isaac.ardis@gmail.com>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@google.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@google.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishgmail@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@gmail.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <nmendez534@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freiheit.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius Nuennerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@gmail.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matt.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Ushakov <ushmax@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@gmail.com>
Maxim Ushakov <ushakov@gmail.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knyszek <mknyszek@gmail.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Durakananda <pongad@gmail.com>
Michael Dorner <mail@michaeldorner.de>
Michael Edwards <medwards@walledcity.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Ellis <micellis@Justin.tv>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Fromberger <micel.j.fromberger@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirhgreg.lehcrei@gmail.com>
Michael Henderson <mdhender@users.noreply.github.com>
Michael Hendricks <michael@ndrix.org>
Michael Hoisie <hoisie@gmail.com>
Michael Hudson-Doyle <michael.hudson@linaro.org>
Michael Kasch <michael.kasch@gmail.com>
Michael Kufli <golang@c.michael-kaufli.de>
Michael Kelly <mjk@google.com>
Michael Lewis <mikelikespie@gmail.com>
Michael MacInnis <Michael.P.MacInnis@gmail.com>
Michael Marineau <michael.marineau@coreos.com>
Michael Matloob <matloob@google.com>
Michael McConville <momcconville@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Michael McLoughlin <mmcloughlin@gmail.com>
Michael Munday <mike.munday@ibm.com>
Michael Pearson <mippearson@gmail.com>
Michael Piatek <piatek@gmail.com>
Michael Pratt <mpratt@gmail.com>
Michael Schaller <michael@schaller.de>
Michael Schurter <michael.schurter@gmail.com>
Michael Shields <mshields@google.com>
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>
Michael Steinert <mike.steiert@gmail.com>
Michael T. Jones <mtj@google.com> <michael.jones@gmail.com>
Michael Teichgraber <mteichgraeber@gmx.de> <m4tswm@googlemail.com>
Michael Traver <mntaver@gmail.com>
Michael Vetter <g.bluehut@gmail.com>
Michal Bohuslavek <mbohuslavek@gmail.com>
Michal Cierniak <cierniak@gmail.com>
Micha Derkacz <ziutek@iinet.pl>
Michal Franc <lam.michal.franc@gmail.com>
Michal Pristas <michal.pristas@gmail.com>
Michal Rostecki <mrostecki@suse.de>
Michalis Kargakis <michalis.kargakis@gmail.com>
Michel Lespinasse <walken@google.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Mendez <stx.mendez@gmail.com>
Miguel Molina <hi@mvdier.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephani <phst@google.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Roulon <pierre.roulon@gmail.com>
Piers <google@helloworld.com>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Varanasi <prashant@prashant.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Qais Patankar <qaisip@gmail.com>
Qiuxuan Zhu <ilsh1022@gmail.com>
Quan Tran <quanguyen@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@astico.com>
Quentin Smith <quentin@golang.org>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddy@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Raph Leven <raph@gmail.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Ravil Bikbulatov <weeellz12@gmail.com>
RaviTeja Pothana <ravi.tezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Raymond Kazlauskas <raima220@gmail.com>
Rebecca Stambler <rstampler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Yasha Bubnov <girokompasst@gmail.com>
Yasuhiro Goto <matope.ono@gmail.com>
Yasuyuki Oka <yasuyuk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <yllh@pdx.edu>
Yesudeep Mangalapilly <yesudeep@google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yohei Takeda <y.tak0812@gmail.com>
Yongjian Xu <i3dmaster@gmail.com>
Yorman Arias <cixtords@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yuji Yaginuma <yuji.yaginuma@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yugu Sonoda <yugui@google.com>
Yukihiro Nishinaka <6elpinal@gmail.com>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gershmam <zachgersh@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Gershmam <zgershman@pivotal.io>
Zak <zrjknill@gmail.com>
Zakatell Kanda <hi@zkanda.io>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zheng Dayu <davidzheng23@gmail.com>
Zheng Xu <zheng.xu@arm.com>
Zhengyu He <hzy@gmail.com>
Zhongpeng Lin <zpлин@uber.com>
Zhongtao Chen <chenzhongtao@126.com>
Zhongwei Yao <zhongwei.yao@arm.com>
Zhou Peng <p@ctriple.cn>
Ziad Hatahet <hatahet@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
<max.faceless.frei@gmail.com>
<hagen1778@gmail.com>
<tbunyk@gmail.com>
<faxriddinjon@gmail.com>
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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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This package was debianized by Thom May <thom@debian.org> on
Wed, 17 Nov 2004 11:27:14 -0800

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C. 
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1.3370 netbase 5.4

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1.3371 go-toml 1.8.1

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1.3374 x-oauth2 0.0.0-20190604053449-0f29369cfe45
1.3374.1 Available under license :

package RESOURCE

import (  
"github.com/gophercloud/gophercloud"
"github.com/gophercloud/gophercloud/pagination"
 )

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result

GetResult is the response from a Get operation. Call its Extract method to interpret it as a RESOURCE.

type GetResult struct {
    commonResult
}

CreateResult is the response from a Create operation. Call its Extract method to interpret it as a RESOURCE.

type CreateResult struct {
    commonResult
}

DeleteResult is the response from a Delete operation. Call its ExtractErr to determine if the request succeeded or failed.

type DeleteResult struct {
    gophercloud.ErrResult
}

UpdateResult is the result of an Update request. Call its Extract method to interpret it as a RESOURCE.

type UpdateResult struct {
    commonResult
}

ResourcePage is a single page of RESOURCE results.

type ResourcePage struct {
    pagination.LinkedPageBase
}

IsEmpty determines whether or not a page of RESOURCES contains any results.

func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

NextPageURL extracts the "next" link from the links section of the result.

func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
}

// GetResult is the response from a Get operation. Call its Extract method to interpret it as a RESOURCE.

type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method to interpret it as a RESOURCE.

type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to determine if the request succeeded or failed.

type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to interpret it as a RESOURCE.

type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.

type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
}
// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes
used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful
that everyone is new to this in the beginning. Please reach out for help or ask
for clarification if needed. No question is ever "dumb" or not worth our time
answering.

To begin, go to [Step 1](step-01-introduction.md).
Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project’s service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the
[CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably
the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will
help you set up a `git` repository correctly.
We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)

You can also use the provided [template](/docs/contributor-tutorial/template) as it contains a lot of the repeated boiler plate code seen in each resource.
However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing ([step-04-acceptance-testing.md](step-04-acceptance-testing.md)) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.
Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.
Use the following `git` workflow to implement this method:

```
```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$(write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$(write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and
proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

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

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:

   a. Unit Tests

   b. Code Formatting checks

   c. `go vet` checks

2. Coveralls will run a coverage test.

3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional
changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).
2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `
` { `}
` 

// GetResult provides a Get result.
const GetResult = '```
// CreateRequest provides the input to a Create request.
const CreateRequest = `
{
}
`;

// UpdateRequest provides the input to a Update request.
const UpdateRequest = `
{
}
`;

// UpdateResult provides an update result.
const UpdateResult = `
{
}
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, ListResult)
})
}
// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, GetResult)
})
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "POST")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, CreateRequest)
w.WriteHeader(http.StatusCreated)
fmt.Fprintf(w, GetResult)
})
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "DELETE")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "PATCH")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    th.TestJSONRequest(t, r, UpdateRequest)
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, UpdateResult)
})
}
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: [int{201}],
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, allPages)
}
```go
actual, err := resources.ExtractResources(allPages)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }
```

```
actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}
package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 4: Acceptance Testing

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don’t have an OpenStack environment to test with, we have lots of documentation [here]/acceptance to help you build your own small OpenStack environment for testing.
Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

```
/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE
Step 7: Congratulations!
=================================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 2: Create an Issue
=================================

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

-----------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
Feature Request

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

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.
Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:
With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

**Step 3: Code Hunting**

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
// go
type Network struct {
    ID       string `json:"id"
    Name     string `json:"name"
    AdminStateUp bool  `json:"admin_state_up"
    Status   string `json:"status"
    Subnets  []string `json:"subnets"
    TenantID string `json:"tenant_id"
    Shared   bool `json:"shared"
}
```  

to look like

```go
// go
type Network struct {
    ID       string `json:"id"
    Name     string `json:"name"
    AdminStateUp bool  `json:"admin_state_up"
    Status   string `json:"status"
    Subnets  []string `json:"subnets"
    TenantID string `json:"tenant_id"
    Shared   bool `json:"shared"
    AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```
We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

--------------
OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

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

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.3375 jakarta-inject 2.5.0

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1.3376 paramiko 2.7.2
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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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-------

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1.3378 go-runewidth 0.0.4

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1.3379 decompress-response 3.3.0

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1.3380 log-rotate 3.11.0 0.1ubuntu1

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1.3381 hk2-locator 2.5.0

1.3382 jinja2 3.0.3
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* /opt/cola/permits/1226358395_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/LICENSE.rst

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

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

[options.packages.find]
where = src

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

[tool:pytest]
testpaths = tests
filterwarnings =
error
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 = 3.6
disable_subclassing_any = True
disable_untyped_calls = True
disable_untyped_defs = True
disable_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/1226358395_1636965021.11/0/jinja2-3.0.3-tar-gz/Jinja2-3.0.3/setup.cfg
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Metadata-Version: 2.1
Name: Jinja2
Version: 3.0.3
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
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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`:

.. code-block:: text

    $ pip install -U Jinja2


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

.. code-block:: jinja

    {% 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 %}

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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/
- Website: https://palletsprojects.com/p/jinja/
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1.3383 docker-distribution 0.0.0-20191216044856-a8371794149d

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Gocheck - A rich testing framework for Go

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Encode::Locale
================

The purpose of this Perl module is try determine what encodings should be used when interfacing to various external interfaces. You will need perl-5.8 or better to use this module.

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Found in path(s):
* /opt/cola/permits/1176891823_1624974569.08/0/libencode-locale-perl-1-05-orig-1-tar-gz/Encode-Locale-1.05/README

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=head1 NAME

Encode::Locale - Determine the locale encoding

=head1 SYNOPSIS

use Encode::Locale;
use Encode;

$string = decode(locale => $bytes);
$bytes = encode(locale => $string);

if (-t) {
    binmode(STDIN, ":encoding(console_in)" Kavanaugh
    binmode(STDOUT, ":encoding(console_out)"
    binmode(STDERR, ":encoding(console_out)"
}

# Processing file names passed in as arguments
my $uni_filename = decode(locale => $ARGV[0]);
open(my $fh, "<", encode(locale_fs => $uni_filename)) || die "Can't open \$uni_filename: \$!";
binmode($fh, ":encoding(locale)"
...}

=head1 DESCRIPTION

In many applications it's wise to let Perl use Unicode for the strings it
processes. Most of the interfaces Perl has to the outside world are still byte based. Programs therefore need to decode byte strings that enter the program from the outside and encode them again on the way out.

The POSIX locale system is used to specify both the language conventions requested by the user and the preferred character set to consume and output. The C<Encode::Locale> module looks up the charset and encoding (called a CODESET in the locale jargon) and arranges for the L<Encode> module to know this encoding under the name "locale". It means bytes obtained from the environment can be converted to Unicode strings by calling C<< Encode::encode(locale => $bytes) >> and converted back again with C<< Encode::decode(locale => $string) >>.

Where file systems interfaces pass file names in and out of the program we also need care. The trend is for operating systems to use a fixed file encoding that don't actually depend on the locale; and this module determines the most appropriate encoding for file names. The L<Encode> module will know this encoding under the name "locale_fs". For traditional Unix systems this will be an alias to the same encoding as "locale".

For programs running in a terminal window (called a "Console" on some systems) the "locale" encoding is usually a good choice for what to expect as input and output. Some systems allows us to query the encoding set for the terminal and C<Encode::Locale> will do that if available and make these encodings known under the C<Encode> aliases "console_in" and "console_out". For systems where we can't determine the terminal encoding these will be aliased as the same encoding as "locale". The advice is to use "console_in" for input known to come from the terminal and "console_out" for output to the terminal.

In addition to arranging for various Encode aliases the following functions and variables are provided:

=over
=item decode_argv( )

=item decode_argv( Encode::FB_CROAK )

This will decode the command line arguments to perl (the C<@ARGV> array) in-place.

The function will by default replace characters that can't be decoded by "\x{FFFD}", the Unicode replacement character.

Any argument provided is passed as CHECK to underlying Encode::decode() call. Pass the value C<Encode::FB_CROAK> to have the decoding croak if not all the command line arguments can be decoded. See L<Encode/"Handling Malformed Data"> for details on other options for CHECK.
Interface to get/set environment variables. Returns the current value as a Unicode string. The $uni_key and $uni_value arguments are expected to be Unicode strings as well. Passing C<undef> as $uni_value deletes the environment variable named $uni_key.

The returned value will have the characters that can't be decoded replaced by "\x{FFFD}"; the Unicode replacement character.

There is no interface to request alternative CHECK behavior as for decode_argv(). If you need that you need to call encode/decode yourself. For example:

```perl
my $key = Encode::encode(locale => $uni_key, Encode::FB_CROAK);
my $uni_value = Encode::decode(locale => $ENV{$key}, Encode::FB_CROAK);
```

Reinitialize the encodings from the locale. You want to call this function if you changed anything in the environment that might influence the locale.

This function will croak if the determined encoding isn't recognized by the Encode module.

With argument force $ENCODING_-... variables to set to the given value.

The encoding name determined to be suitable for the current locale. L<Encode> know this encoding as "locale".

The encoding name determined to be suitable for file system interfaces involving file names. L<Encode> know this encoding as "locale_fs".

The encodings to be used for reading and writing output to the a console. L<Encode> know these encodings as "console_in" and "console_out".
This table summarizes the mapping of the encodings set up by the C<Encode::Locale> module:

<table>
<thead>
<tr>
<th>Encode</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Alias</td>
<td>Windows</td>
<td>Mac OS X</td>
<td>POSIX</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
<td>--------------</td>
<td>------------</td>
</tr>
<tr>
<td>locale</td>
<td>ANSI</td>
<td>nl_langinfo</td>
<td>nl_langinfo</td>
</tr>
<tr>
<td>locale_fs</td>
<td>ANSI</td>
<td>UTF-8</td>
<td>nl_langinfo</td>
</tr>
<tr>
<td>console_in</td>
<td>OEM</td>
<td>nl_langinfo</td>
<td>nl_langinfo</td>
</tr>
<tr>
<td>console_out</td>
<td>OEM</td>
<td>nl_langinfo</td>
<td>nl_langinfo</td>
</tr>
</tbody>
</table>

Windows has basically 2 sets of APIs. A wide API (based on passing UTF-16 strings) and a byte based API based a character set called ANSI. The regular Perl interfaces to the OS currently only uses the ANSI APIs. Unfortunately ANSI is not a single character set.

The encoding that corresponds to ANSI varies between different editions of Windows. For many western editions of Windows ANSI corresponds to CP-1252 which is a character set similar to ISO-8859-1. Conceptually the ANSI character set is a similar concept to the POSIX locale CODESET so this module figures out what the ANSI code page is and make this available as $ENCODING_LOCALE and the "locale" Encoding alias.

Windows systems also operate with another byte based character set. It’s called the OEM code page. This is the encoding that the Console takes as input and output. It’s common for the OEM code page to differ from the ANSI code page.

On Mac OS X the file system encoding is always UTF-8 while the locale can otherwise be set up as normal for POSIX systems.

File names on Mac OS X will at the OS-level be converted to NFD-form. A file created by passing a NFC-filename will come in NFD-form from readdir(). See L<Unicode::Normalize> for details of NFD/NFC.

Actually, Apple does not follow the Unicode NFD standard since not all character ranges are decomposed. The claim is that this avoids problems with round trip conversions from old Mac text encodings. See L<Encode::UTF8Mac> for
details.

=head2 POSIX (Linux and other Unixes)

File systems might vary in what encoding is to be used for filenames. Since this module has no way to actually figure out what the is correct it goes with the best guess which is to assume filenames are encoding according to the current locale. Users are advised to always specify UTF-8 as the locale charset.

=head1 SEE ALSO

L<118N::Langinfo>, L<Encode>, L<Term::Encoding>

=head1 AUTHOR

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=cut

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* /opt/cola/permits/1176891823_1624974569.08/0/libencode-locale-perl-1-05-orig-1-tar-gz/Encode-Locale-1.05/lib/Encode/Locale.pm
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---
abstract: 'Determine the locale encoding'
author: 
- 'Gisle Aas <gisle@activestate.com>'
build_requires:
  ExtUtils::MakeMaker: '0'
  Test::More: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Encode-Locale
no_index:
directory:
  - t
  - inc
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1.3394 click 8.0.3

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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
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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 = >= 3.6

[options.packages.find]
    where = src

[tool:pytest]
testpaths = tests
filterwarnings =
    error

[coverage:run]
branch = true
source =
    click
tests

[coverage:paths]
    source =
        click
        */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 = 3.6
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_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

Found in path(s):
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/setup.cfg
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* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/src/click/parser.py
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Metadata-Version: 2.1
Name: click
Version: 8.0.3
Summary: Composable command line interface toolkit
Home-page: https://palletsprojects.com/p/click/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
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Project-URL: Documentation, https://click.palletsprojects.com/
Project-URL: Changes, https://click.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: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
License-File: LICENSE.rst
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

   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
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- Documentation: https://click.palletsprojects.com/
- Changes: https://click.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/click/
- Source Code: https://github.com/pallets/click
- Issue Tracker: https://github.com/pallets/click/issues
- Website: https://palletsprojects.com/p/click
- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets

Found in path(s):
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/src/click.egg-info/PKG-INFO
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/PKG-INFO

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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/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/docs/contrib.rst

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* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/tests/test_formatting.py

1.3395 jackson-datatype-guava 2.9.10

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1.3402 opentracing-go 1.0.2

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@google.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <light@google.com>
Sarah Adams <shadams@google.com>
Scott Van Woudenberg <scottvw@google.com>
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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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# Please keep the list sorted.

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Alex Reece <awreece@gmail.com>
David Symonds <dsymonds@golang.org>
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package spec

// License information for the exposed API.

//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempy"`
    URL  string `json:"url,omitempy"`
}

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import (  
    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/mo"  
    "github.com/vmware/govmomi/vim25/soap"  
    "github.com/vmware/govmomi/vim25/types"  
)

// EvalLicense is the default license  
var EvalLicense = types.LicenseManagerLicenseInfo{  
    LicenseKey: "00000-00000-00000-00000-00000",  
    EditionKey: "eval",  
    Name: "Evaluation Mode",  
    Properties: []types.KeyAnyValue{  
        {  
            Key: "feature",  
            Value: types.KeyValue{  
                Key: "serialuri:2",  
                Value: "Remote virtual Serial Port Concentrator",  
            },  
        },  
        {  
            Key: "feature",  
            Value: types.KeyValue{  
                Key: "dvs",  
                Value: "vSphere Distributed Switch",  
            },  
        },  
    },
    
    type LicenseManager struct {  
        mo.LicenseManager
    }

    func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {  
        m := &LicenseManager{}  
    }
m.Self = ref
m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
}

return m

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)  
            return body
        }
    }
    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {

body := &methods.UpdateLicenseLabelBody{}

for i := range m.Licenses {
    license := &m.Licenses[i]

    if req.LicenseKey != license.LicenseKey {
        continue
    }

    body.Res = new(types.UpdateLicenseLabelResponse)

    for j := range license.Labels {
        label := &license.Labels[j]

        if label.Key == req.LabelKey {
            if req.LabelValue == "" {
                license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
            } else {
                label.Value = req.LabelValue
            }
            return body
        }
    }

    license.Labels = append(license.Labels, types.KeyValue{
        Key:   req.LabelKey,
        Value: req.LabelValue,
    })

    return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body


type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {

if req.EntityId != Map.content().About.InstanceUuid {
    id := types.ManagedObjectReference{
        Type:  "HostSystem",
        Value: req.EntityId,
    }
    if Map.Get(id) == nil {
        return body
    }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    {
        EntityId: req.EntityId,
        AssignedLicense: EvalLicense,
    },
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info.LicenseKey = key
    info.Labels = labels
    return info
}

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "Plugin \"%v\", n.Plugin)  
    } else {
        s += fmt.Sprintf("Option \"%v\" in plugin \"%v\", n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
s += "is added as a default in " + n.Version + "."
} else {
    s += "is " + n.Severity + " in " + n.Version + "."
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v", `, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated  = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)

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- Copy files to and from Containers in a cluster
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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

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.

- `~-c <container-name>~`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `~<namespace>/`.

- `~<pod-namespace>/<pod-name>:<path>~`

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Paul Borman <borman@google.com>
bmatsuo
shawnps
theory
jboverfelt
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#
Andreas Jaekle <andreas@jaekle.net>
Dmitri Shuralyov <shurcooL@gmail.com>
Ethan Mosbaugh <emosbaugh@gmail.com>
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Abhijeet Kasurde <akasurde@redhat.com>
abrarshivani <abrarshivani@users.noreply.github.com>
Adam Shannon <adamkshannon@gmail.com>
Alessandro Cortiana <alessandro.cortiana@gmail.com>
Alex Bozhenko <alexblozenko@fb.com>
Alex Ellis (VMware) <alexellis2@gmail.com>
Alvaro Miranda <kikitux@gmail.com>
Amanda H. L. de Andrade <amanda.andrade@serpro.gov.br>
Amit Bathla <abathla@.vmware.com>
amit bezalel <amit.bezalel@hpe.com>
Andrew <AndrewDi@users.noreply.github.com>
Andrew Chin <andrew@andrewtchin.com>
Andrew Kutz <akutz@vmware.com>
Anfernee Yongkun Gui <agui@vmware.com>
angystardust <angystardust@users.noreply.github.com>
aniketGslab <aniket.shinde@gslab.com>
Arran Walker <arran.walker@zopa.com>
Aryeh Weinreb <aryehweinreb@gmail.com>
Austin Parker <aparker@apprenda.com>
Balu Dontu <bdontu@vmware.com>
bastienbc <bastien.barbe.creuly@gmail.com>
Bob Killen <killen.bob@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org>
Bruce Downs <bruceadowns@gmail.com>
Cédric Blomart <cblomart@gmail.com>
Chris Marchesi <chrism@vanclueverttech.com>
Christian Hiltje <docwhat@gerf.org>
Clint Greenwood <cgreenwood@vmware.com>
CuiHaozhi <cuihaozhi@chinacloud.com.cn>
Danny Lockard <danny.lockard@banno.com>
Dave Tucker <dave@dtucker.co.uk>
Davide Agnello <dagnello@hp.com>
David Stark <dave@davidstark.name>
Davinder Kumar <davinderk@vmware.com>
Deric Crago <deric.crago@gmail.com>
Doug MacEachern <dougm@vmware.com>
Eloy Coto <eloy.coto@gmail.com>
Eric Gray <egray@vmware.com>
Eric Yutao <eric.yutao@gmail.com>
Erik Hollensbe <github@hollensbe.org>
Ethan Kaley <ethan.kaley@emc.com>
Fabio Rapposelli <fabio@vmware.com>
Faiyaz Ahmed <ahmedf@vmware.com>
forkbomber <forkbomber@users.noreply.github.com>
freebsdly <qinhua@outlook.com>
Gavin Gray <gavin@infinio.com>
Gavrie Philipson <gavrie.philipson@elastifile.com>
George Hicken <ghicken@vmware.com>
Gerrit Renker <Gerrit.Renker@ctl.io>
gthombare <gthombare@vmware.com>
Hasan Mahmood <mahmoodh@vmware.com>
Henrik Hodne <henrik@travis-ci.com>
Isaac Rodman <isaac@eyz.us>
Ivan Porto Carrero <icarrero@vmware.com>
James King <james.king@emc.com>
Jason Kincl <jkincl@gmail.com>
Jeremy Canady <jcanady@jackhenry.com>
jeremy-clerc <jeremy@clerc.io>
Jiatong Wang <wjiang@vmware.com>
Joo Pereira <joaoog@vmware.com>
Jonas Ausevicius <jonas.ausevicius@virtustream.com>
Jorge Sevilla <jorge.sevilla@rstor.io>
kayrus <kay.diam@gmail.com>
Kevin George <georgek@vmware.com>
leslie-qiu <leslie.qiwa@gmail.com>
Louie Jiang <jiangl@vmware.com>
maplain <fangyuanl@vmware.com>
Marc Carmier <mcarmier@gmail.com>
Maria Ntalla <mariannntalla@gmail.com>
Marin Atanasov Nikolov <nnikolov@vmware.com>
Matt Clay <matt@mystile.com>
Matthew Cosgrove <matthew.cosgrove@dell.com>
Matt Moriarity <matt@mattoriarity.com>
Mevan Samaratunga <mevansam@gmail.com>
Michal Jankowski <mjankowski@vmware.com>
mingwei <mingwei@smartx.com>
Nicolas Lamirault <nicolas.lamirault@gmail.com>
Omar Kohl <omarkohl@gmail.com>
Parham Alvani <parham.alvani@gmail.com>
Pierre Gronlier <pierre.gronlier@corp.ovh.com>
Pieter Noordhuis <pnoordhuis@vmware.com>
prydin <prydin@vmware.com>
Rowan Jacobs <rojacobs@pivotal.io>
rnner.mei <runner.mei@gmail.com>
S.alar Onur <conur@vmware.com>
Sergey Ignatov <sergey.ignatov@jetbrains.com>
Steve Purcell <steve@sanityinc.com>
Takaaki Furukawa <takaaki.frkw@gmail.com>
Tamas Eger <tamas.eger@bitrise.io>
tanishi <tanishit503@gmail.com>
Ted Zlatanov <tzz@lifelogs.com>
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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodelea@gmail.com>
Vyacheslav Kim <kane@sendgrid.com>
Walter Schulze <awalterschulze@gmail.com>

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tomb - support for clean goroutine termination in Go.

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Eclipse

The following artifacts are EPL.
  * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
  * org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.3416 c-ares 1.2.5
1.3416.1 Available under license :
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1.3417 goprotobuf 1.3.2
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1.3418 grep 3.1 2build1

1.3418.1 Available under license:

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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 Written by Adam Twiss (adam@zeus.co.uk). March 1996

 Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
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Version 2.1, February 1999

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It was downloaded from http://0pointer.de/lennart/projects/libdaemon/

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1.3425 gophercloud 0.1.0
package RESOURCE

import {
  "github.com/gophercloud/gophercloud"
  "github.com/gophercloud/gophercloud/pagination"
}

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
  commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
  commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
  commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
  resources, err := ExtractResources(r)
return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes
used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we’re very mindful
that everyone is new to this in the beginning. Please reach out for help or ask
for clarification if needed. No question is ever "dumb" or not worth our time
answering.

To begin, go to [Step 1](step-01-introduction.md).
Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.
### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.
### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

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Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

----------------------
When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"
```
// ListResult provides a single page of RESOURCE results.
const ListResult = `{
}
`;

// GetResult provides a Get result.
const GetResult = `{
}
`;

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`;

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{
}
`;

// UpdateResult provides an update result.
const UpdateResult = `{
}
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}
// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    })
}
w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, UpdateRequest)

w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})
}
}
package RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
}

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
    return
    return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
})

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: [int{200}],
    })
    return
}

package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) { 
    th.SetupHTTP()
    defer th.Tear downHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        return 
    })
    th.Assert(t, count == 0)
    th.Assert(t, err == nil)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

return true, nil
})
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)
    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)
    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)
    createOpts := resources.CreateOpts{
        Name: "resource two",
    }
    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)
res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made
Gophercloud a better project with your work.

Step 4: Acceptance Testing

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

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

`/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE

Step 2: Create an Issue

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

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.
Reporting a Bug
--------------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.
You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).
Also note how these issues provide links to the service's Python code. These links are not required for issues, but it's usually a good idea to provide them, anyway. These links are required for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

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

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
  ID string  `json:"id"`
  Name string  `json:"name"`
  AdminStateUp bool  `json:"admin_state_up"`
  Status string  `json:"status"`
  Subnets []string  `json:"subnets"`
  TenantID string  `json:"tenant_id"`
  Shared bool  `json:"shared"`
}
```

to look like
```go
// type Network struct {
ID           string `json:"id"`
Name         string `json:"name"`
AdminStateUp bool  `json:"admin_state_up"`
Status       string `json:"status"`
Subnets      []string `json:"subnets"`
TenantID     string `json:"tenant_id"`
Shared       bool  `json:"shared"`
AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch.
for Gophercloud. However, this is an essential step to ensuring the feature
or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips
-----------------

OpenStack projects differ from one to another. Code is organized in different
ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located
  in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on.
  Review all results to gain a good understanding of everywhere the field is
  used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance
Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed
document which describes the different ways you can contribute to Gophercloud
and how to get started. This tutorial you're reading is very similar to that
guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used
in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).
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1.3434 libpsl 0.19.1-5build1

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lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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   func initBsdClause2() {
     Licenses["freebsd"] = License{
       Name: "Simplified BSD License",
       PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                                 "2 clause bsd", "simplified bsd license"},
       Header: "All rights reserved.

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Licenses["bsd"] = License{
    Name: "NewBSD",
    PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
    Header: `All rights reserved.
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    Licenses["gpl2"] = License{
        Name: "GNU General Public License 2.0",
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    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `
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// Parts inspired by https://github.com/ryanuber/go-license

package cmd

import (   "strings"   "time"


// 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 ""

func initLGPL() {
Licenses["lgpl"] = License{
Name: "GNU Lesser General Public License",
PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
Header: `This program is free software: you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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

package cmd
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func initApache2() {
    Licenses["apache"] = License{
        Name:            "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
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1.3443 simple-swizzle 0.2.2

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "_acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "_acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "_acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "_acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "_acl_delete_file", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "_acl_delete_link", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "_acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "_acl_get_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "_acl_get_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "_acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "_acl_set_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "_acl_set_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "_semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "_syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "_sysctl", NULL, print_sysctl, NULL },
The provided text is a list of C function definitions, each with a comment indicating the function's purpose. Here is the text in plain format:

```c
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s("%s",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)d"n", NULL, NULL },
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{ TARGET_FREEBSD_NR_lstat, "lstat", "%s("%s",%p")", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
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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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Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ecoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
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Vyacheslav Kim <kane@sendgrid.com>
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Upstream Authors: Douglas Gilbert <dgilbert at interlog dot com>,
Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,
Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
Grant Grundler <grundler at parisc-linux dot org>,
Christophe Varoqui <christophe dot varoqui at free dot fr>,
Michael Weller <eowmob at exp-math dot uni-essen dot de>,
Eric Youngdale <eric at andante dot org>

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Upstream Authors: Douglas Gilbert <dgilbert at interlog dot com>,
Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,
Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
Grant Grundler <grundler at parisc-linux dot org>,
Christophe Varoqui <christophe dot varoqui at free dot fr>,
Michael Weller <eowmob at exp-math dot uni-essen dot de>,
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1.3453 clockwork 0.1.0
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Clockwork - a scheduler process to replace cron
=================================================================

Cron is non-ideal for running scheduled application tasks, especially in an app

Clockwork is a lightweight, long-running Ruby process which sits alongside your
web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker)
to schedule recurring work at particular times or dates. For example,
refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Example
-------

Create schedule.rb:

```ruby
require 'clockwork'
include Clockwork

every('10s') { puts 'every 10 seconds' }
every('3m') { puts 'every 3 minutes' }
every('1h') { puts 'once an hour' }
every('1d', :at => '00:00') { puts 'every night at midnight' }

Run it with the clockwork binary:

$ clockwork schedule.rb

Or run directly with Ruby:

$ ruby -r schedule -e Clockwork.run

Use with queueing
-----------------

Clockwork only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as

[Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job),
[Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/),
[RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/), or
[Resque](http://github.com/blog/542-introducing-resque). This design allows a simple scheduler process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```ruby
require 'clockwork'
include Clockwork

require 'stalker'
include Stalker
```
every('1h') { enqueue('feeds.refresh') }

every('1d', :at => '01:30') { enqueue('reminders.send') }

Using a queueing system which doesn't require that your full application be loaded is preferable, because the scheduler process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment. For example, with DJ/Rails:

require 'config/boot'
require 'config/environment'
require 'clockwork'
include Clockwork

every('1h') { Feed.send_later(:refresh) }
every('1d', :at => '01:30') { Reminder.send_later(:send_reminders) }

In production

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

Only one scheduler process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* Machine 1: 3 web (thin start), 3 workers (rake jobs:work), 1 scheduler (clockwork schedule.rb)
* Machine 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your scheduler process running the same way you keep your web and workers running.

Meta

----

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scheduler)

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http://github.com/adamwiggins/clockwork

Found in path(s):
* /opt/cola/permits/1212379238_1633816578.47/0/adamwiggins-clockwork-v0-1-0-0-g596af5c-1-targ.gz/adamwiggins-clockwork-596af5c/README.md
1.3454 dmsetup 1.02.145-4.1ubuntu3.18.04.3

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import (
    "bytes"
var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }
    })

    // Check for license in .go files.
    for _, sentinel := range sentinels {
        if !strings.Contains(src, sentinel) {
            t.Errorf("%v: license header not present. want %q", path, sentinel)
            return nil
        }
    }
}

// TODO: check .proto files.
return nil
})
if err != nil {
    t.Fatal(err)
}

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1.3457 pycparser 2.20

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pycparser -- A C parser in Python

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1.3458 libxmuu 1.1.2-2

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1.3459 structured-merge-diff 4.0.2

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```
-- vile: txtmode file-encoding=utf-8
```

1.3463 urllib3 1.26.7

1.3463.1 Available under license:

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1.3464 python3-astroid 1.6.0-1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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Mersenne Twister

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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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.3470 p11-kit 0.23.9-2ubuntu0.1

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1.3471 netcat-openbsd 1.187-1ubuntu0.1

1.3472 did-you-mean 1.3.0
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Metadata-Version: 1.0
Name: wsgiref
Version: 0.1.2
Summary: WSGI (PEP 333) Reference Library
Home-page: http://cheeseshop.python.org/pypi/wsgiref
Author: Phillip J. Eby
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Description: This is a standalone release of the ``wsgiref`` library to be included in Python 2.5. For the standalone version's documentation, see:

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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1.3481 python3-jinja2 2.10 1ubuntu0.18.04.1

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### 1.3482 sysv-init 2.88dsf 59.10ubuntu1

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
  * in C (faster - it is executed many times during system startup).
  *
  * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Scott Van Woudenberg <scottvw@google.com>
Takashi Matsuo <tmat suo@google.com>
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Corey Scott [@corsc](https://github.com/corsc)
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procds provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Dustin Sallings <dustin@spy.net>
Jason Mooberry <jasonmoo@me.com>
Sergey Shepelev <temotor@gmail.com>
Alex Edwards <ajmedwards@gmail.com>

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@import './skin';
@import './layout';

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Alex A. Skinner
Andrew Tunnell-Jones
Ask Bjrn Hansen
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Marek Majkowski
Peter van Dijk
Omri Bahumi
Alex Sergeyev
James Hartig

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#

Abhijeet Kasurde <akasurde@redhat.com>
abrarshivani <abrarshivani@users.noreply.github.com>
Adam Shannon <adamkshannon@gmail.com>
akutz <sakutz@gmail.com>
Alessandro Cortiana <alessandro.cortiana@gmail.com>
Alex Bozhenko <alexbozhenko@fb.com>
Alvaro Miranda <kikitux@gmail.com>
amandahla <amanda.andrade@serpro.gov.br>
Amanda H. L. de Andrade <amanda.andrade@serpro.gov.br>
Amit Bathla <abathla@vmware.com>
amit.bezalel <amit.bezalel@hpe.com>
Andrew Chin <andrew@andrewtchin.com>
Anfernee Yongkun Gui <agui@vmware.com>
aniketGslab <aniket.shinde@gslab.com>
Arran Walker <arran.walker@zopa.com>
Aryeh Weinreb <aryehweinreb@gmail.com>
Austin Parker <aparker@apprenda.com>
Balu Dontu <bdontu@vmware.com>
bastienbc <bastien.barbe.creuly@gmail.com>
Bob Killen <killen.bob@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org>
Bruce Downs <brucedowns@gmail.com>
Cdrick Blomart <cbломарт@gmail.com>
Chris Marchesi <chris@vancluevertech.com>
Christian Hiltje <docwhat@gerf.org>
Clint Greenwood <cgreenwood@vmware.com>
Danny Lockard <danny.lockard@banno.com>
Dave Tucker <dave@dtucker.co.uk>
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David Stark <dave@davidstark.name>
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Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

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  @extend %frame-green-500, %with-passing;
}
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The /operator/license endpoints allow for setting and retrieving the Consul Enterprise License.

# License - Operator HTTP API

-> **Enterprise Only!** This API endpoint and functionality only exists in Consul Enterprise. This is not present in the open source version of Consul.

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html), [agent caching](/api/features/caching.html), and [required ACLs](/api/index.html#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```text
```bash
$ curl \
http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```

## Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUT</td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html), [agent caching](/api/features/caching.html), and [required ACLs](/api/index.html#authentication).
### Parameters

- `dc` (string: "") - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```
$ curl
   --request PUT
   --data @consul.license
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```
{
   "Valid": true,
   "License": {
      "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
      "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
      "installation_id": "+",
      "issue_time": "2018-05-21T20:03:35.911567355Z",
      "start_time": "2018-05-21T04:00:00Z",
      "expiration_time": "2019-05-22T03:59:59.999Z",
      "product": "consul",
      "flags": {
         "package": "premium"
      },
      "features": [
         "Automated Backups",
         "Automated Upgrades",
         "Enhanced Read Scalability",
         "Network Segments",
         "Redundancy Zone",
         "Advanced Network Federation"
      ]
   }
}
```
"temporary": false
},
"Warnings": []
}
```
open_source_licenses.txt

vSphere Integrated Containers Engine 1.5.2 GA

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>>> oxtoacart/bpool-4e1c556767c2dd59fa4c7c83d342c5f288b0256d
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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8eb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26ca9e3d239e2fcb3432a2

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>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
>> libffi-3.2.1-5.ph2
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>> openssl-1.0.2q-1.ph2
>> pcre-8.41-1.ph2
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>> gcc-6.3.0-7.ph2
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>> linux-esx-4.9.154-1.ph2
>> logrotate-3.11.0-3.ph2
>> mingetty-1.08-2.ph2
>> net-tools-1.60-11.ph2
>> procps-ng-3.3.15-2.ph2
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>> coreutils-8.27-3.ph2
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>>> golang_glog-23def4e6c14b4da8ac2ed8007337bc5eb5007998

Go support for leveled logs, analogous to https:code.google.comgoogle-glog

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>>> golang_groupcache_lru-72d04f9fcddec7d3821820cc4a6f150eae553639a

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>>> maruel_panicparse_stack-25bcac0d793cf4109483505a0d66e066a3a90a80

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g04-7ce08ca145dbe0e66a127c447b80ee7914f3e4f9.tar

g04-7ce08ca145dbe0e66a127c447b80ee7914f3e4f9reflectutil\swapper_unsafe_15.go

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>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b55da4002bcb

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868d7fa9b202a3c8be315aaa

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>>> d2g dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> gizak_termui-798ffb9cbe4073ef1f88e6069ca4a2e6aa6676b

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>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec

Gocheck - A rich testing framework for Go

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>>> go-martini/martini-22fa46961aabd2665cf3f1343b146d20028f5071

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Go-nfs-client version 0.1

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>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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>>> gogo_protobuf_gogoproto-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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code
codec
codec.go

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7
codec/codec.go
```

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```bash
>>> gogoprotobuf_types-6a92c871a8f5333cf106b2cdf937567208dbb2b7
```

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>>> goji/param-d7f49fd7d1ed53fd562e737a8b5bbcc7e3d925e2

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>>> ryanuber_go-glob-256dc444b735e061061cf46c809487313d5b0065

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>>> stretchr_objx-1a9d0bb9f541897e62256577b352fdbc1fb4fd94

objx - by Mat Ryer and Tyler Bunnell

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>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

tomb - support for clean goroutine termination in Go.

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>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16c1872fbbb

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728b753d0135da6801d45a38e6f43ff55779c5c2\curve25519\square_amd64.s

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>>> x_crypto_ed25519-728b753d0135da6801d45a38e6f43ff55779c5c2

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See http://libtom.org/?page=features&newsitems=5&whatfile=crypt.
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```bash
>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2
```

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godoc\short\short.go

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+build appengine

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

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>>> curl-7.59.0-4.ph2

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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
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
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lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Bison implementation for Yacc-like parsers in C


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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>
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TH su 1 "18 August 1999" GNU Shell Utilities 20

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Written by Carlos O'Donell <carlos@codesourcery.com>

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chkconfig:   2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
Based on HW's ttl target
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Written by John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the Web page http://www.jhauser.us/arithmetic/SoftFloat-2b/SoftFloat-source.txt

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Reasonably optimised generic C-code for memcpy on Microblaze
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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

http://lwn.net/Kernel/LDD3/

However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

Please send questions/comments/patches about Linux PCI API to the "Linux PCI" <linux-pci@atrey.karlin.mff.cuni.cz> mailing list.

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Based on scriptreplay.pl by Joey Hess <joey@kitenet.net>

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line - read one line

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2.32\misc-utils\uuidparse.c

uuidparse.c --- Interpret uuid encoded information. This program
violates the UUID abstraction barrier by reaching into the
guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
   You should assume a struct passwd has an infinite number of fields, so
   you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd, _I_ _HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr; this is a library function and should not print on the screen,
but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $  
$Revision: 1.13 $  
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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error.c -- Functions for handling errors.

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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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/ Bison implementation for Yacc-like parsers in C


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The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

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The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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Test Socket Type

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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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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along 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:

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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 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.

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

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Version 2.1, February 1999

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

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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 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.

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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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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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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.

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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-------------- SECTION 21: SIL Open Font License, V1.1 ------------

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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

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mgo - MongoDB driver for Go

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Portions of the client are based on code at:
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitemempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitemempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitemempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitemempty"

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitemempty"

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitemempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitemempty"

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitemempty"
// no documentation yet
Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}
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Argon2 reference source code package - reference C implementations

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Gocheck - A rich testing framework for Go

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