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In your requests please include the following reference number 78EE117C99-1342463071

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dateutil - Extensions to the standard Python datetime module.

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1.8 python-idna 2.6 1

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1.9 sqlite 3.34.1-3

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1.11 lsb 9.20170808ubuntu1

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/* setjmp is implemented in setjmp.S */

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* /opt/cola/permits/1212207467_1635496455.04/0/grpc-protobuf-1-27-1-sources-1.jar/io/grpc/protobuf/package-info.java
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1.33 tasksel 3.53

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1.34 libstatgrab 0.92-2

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with the Library, with the complete machine-readable "work that
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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interface-compatible with the version that the work was made with.

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1.37 spdx-license-ids 3.0.5
1.37.1 Available under license:

root = true

[*]
charset = utf-8
end_of_line = lf
indent_style = tab
tab_width = 2
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## 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):

```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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[*.workflow]

indent_style = space

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1.38 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.40 initramfs-tools 0.133+deb10u1

1.40.1 Available under license:

This package was debianized by Jeff Bailey <jbailey@ubuntu.com> on Thu, 27 Jan 2005 15:23:52 -0500.

The current Debian maintainer are maximilian attms <maks@debian.org> and Michael Prokop <mika@debian.org>.

The current ubuntu release can be found at:

The Debian tree is maintained with "git" at:
https://anonscm.debian.org/git/kernel/initramfs-tools.git
https://anonscm.debian.org/cgit/kernel/initramfs-tools.git

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1.41 selinux 2.7-2build2

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This is the Debian packe for libselinux, and it is built from sources obtained from:
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This package was debianized by Colin Walters <walters@debian.org> on
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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.42 debianutils 4.8.6.1
1.42.1 Available under license:

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Guy Maor <maor@debian.org>, and are now maintained by Clint Adams
<schizo@debian.org>.

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1.46 godbus 5.0.4

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1.47 ini 1.42.0

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1.48 mbed-tls 2.8.0-1

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g dsp_name.c
lib/gssapi/mechglue/g dsp_status.c
lib/gssapi/mechglue/g dup_name.c
lib/gssapi/mechglue/g exp sec_context.c
lib/gssapi/mechglue/g export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp sec_context.c
lib/gssapi/mechglue/g init sec_context.c
lib/gssapi/mechglue/g initialize.c
lib/gssapi/mechglue/g inquire_context.c
lib/gssapi/mechglue/g inquire cred.c
lib/gssapi/mechglue/g inquire_names.c
lib/gssapi/mechglue/g process context.c
lib/gssapi/mechglue/g rel_buffer.c
lib/gssapi/mechglue/g rel cred.c
lib/gssapi/mechglue/g rel name.c
lib/gssapi/mechglue/g rel oid set.c
lib/gssapi/mechglue/g seal.c
lib/gssapi/mechglue/g sign.c
lib/gssapi/mechglue/g store cred.c
lib/gssapi/mechglue/g unseal.c
lib/gssapi/mechglue/g userek.c
lib/gssapi/mechglue/g_utils.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.58 ip-cidr 2.1.1

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 * /
 *
 * A specialized version of `baseIsEqual` for arrays and objects which performs
 * deep comparisons and tracks traversed objects enabling objects with circular
 * references to be compared.
 * *
 * @param [Object] object The object to compare.
 * @param [Object] other The other object to compare.
 * @param [Function] equalFunc The function to determine equivalents of values.
 * @param [Function] [customizer] The function to customize comparisons.
 * @param [number] [bitmask] The bitmask of comparison flags. See `baseIsEqual`’
 * for more details.
 * @param [Object] [stack] Tracks traversed `object` and `other` objects.
 * @returns {boolean} Returns `true` if the objects are equivalent, else `false`.
 * /
 */

// for more details.
/**
* Creates an array of the own enumerable property names of `object`.
* 
* **Note:** Non-object values are coerced to objects. See the
* [ES spec](http://ecma-international.org/ecma-262/7.0/#sec-object.keys)
* for more details.
* 
* @static
* @since 0.1.0
* @memberOf _
* @category Object
* @param {Object} object The object to query.
* @returns {Array} Returns the array of property names.
* @example
* 
* function Foo() {
*   this.a = 1;
*   this.b = 2;
* }
* 
* Foo.prototype.c = 3;
* 
* _.keys(new Foo);
* // => ['a', 'b'] (iteration order is not guaranteed)
* 
* _.keys('hi');
* // => ['0', '1']
*

Found in path(s):
* /opt/cola/permits/1140310342_1614821877.91/0/ip-cidr-2-1-1-zip/ip-cidr-master/dist/ip-cidr.js

---

**1.59 read-pkg 3.0.0**

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1.60 mawk 1.3.4.20200120 2

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1.61 python-fasteners 0.12.0-3

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1.62 webencodings 0.5.1

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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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from setuptools import setup, find_packages
import io
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',
)
webencodings.mklabels

Regenerate the webencodings.labels module.

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

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
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==

webencodings.mklabels

~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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==

import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen
def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = ['``'
    webencodings.labels
    ~~~~~~~~~~~~~~~~~~~~

    Map encoding labels to their name.

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    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    LABELS = {
    ''}
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}
    return ''.join(parts)

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

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

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

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* 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
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP
This is a Python implementation of the `WHATWG Encoding standard`<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
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In order to be compatible with legacy web content when interpreting something like \`Content-Type: text/html; charset=latin1\`, tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, `US-ASCII` and `iso-8859-1` on the web are actually aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

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

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## 1.63 html5lib 1.0.1-1

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1.73 libsgutils 1.44-1

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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1.82 kerberos 1.19.2-r4

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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
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
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1.94 six 1.12.0-1.ph3

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

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Ty Coon, President of Vice
```

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This package was debianized by Nathan Scott nathans@debian.org on Tue, 26 Feb 2002 13:25:26 +1100

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1.105 ipnormalize 1.0.1

1.105.1 Available under license:
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Found in path(s):
* /opt/cola/permits/1140310845_1614802880.67/0/ipv6-normalize-1-0-1-1-tgz/package/index.js
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ipv6-normalize
==============
```
$ npm i --save ipv6-normalize
```

Extract `bestPresentation` function from [URI.js/src/IPv6.js](https://github.com/medialize/URI.js) into independent module.

```javascript
'use strict';

var assert = require('assert');
var n = require('./');

assert(n('2001:db8:0:0:0:cafe:1111') === '2001:db8::cafe:1111');
assert(n('2001:0DB8:AAAA:0000:0000:0000:0000:000C') === '2001:db8:aaaa::c');
assert(n('2001:db8::1:0:0:0:4') === '2001:db8:0:1::4');
```

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* /opt/cola/permits/1140310845_1614802880.67/0/ipv6-normalize-1-0-1-1-tgz/package/README.md

---

**1.106 unattended-upgrades 1.111.2**

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

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-- vile: txtmode file-encoding=utf-8
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ncurses
Upstream-Contact: bug-ncurses@gnu.org
Thomas Dickey <dickey@his.com>
Source: https://invisible-mirror.net/archives/ncurses/

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $

1.120 ispell 3.4.00-6+b1

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1.121 busybox 1.30.1-4

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzil2/libbzil2 version 1.0.4 of 20 December 2006
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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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<th>Owner</th>
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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
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(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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Gocheck - A rich testing framework for Go

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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>.'"
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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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) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];

my ($year) = $output =~ /\b\d{4,}\b/i
    or die "Copyright statement not found in perl -v output '$output';

$year;
}

1.135 oniguruma 6.9.1-1
1.135.1 Available under license :
    No license file was found, but licenses were detected in source scan.

    License: BSD

    Found in path(s):
    * /opt/ws_local/PERMITS_SQL/1003518487_1592886770.490/pld-linux-oniguruma-auto-th-oniguruma-6-9-1-1-0-
g36a08da-tar-gz/pld-linux-oniguruma-36a08da/oniguruma.spec

1.136 sys-mountinfo 0.4.1
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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
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1.154 patch 2.7.6 3+deb10u1

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1.156 keyutils 1.6.3-r0

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1.158 xxhash 2.1.1

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1.160 rsyslog 8.1901.0-1+deb10u1

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If distribution of object code is made by offering access to copy
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or
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ASN.1 library for Python
-----------------------


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
```
```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)
```
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
```
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=======

.. include:: ../../LICENSE.rst

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ASN.1 library for Python
========================

.. toctree::
   :maxdepth: 1

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`_ 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
-------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
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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.

.. toctree::
   :maxdepth: 1

/changelog

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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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Metadata-Version: 1.1
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>
Author-email: etingof@gmail.com
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable

Open Source Used In Cisco Telemetry Broker On Prem 1.3.1 1075
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
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* /opt/cola/permits/1125512698_1614699302.25/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/pyasn1/compat/binary.py
* /opt/cola/permits/1125512698_1614699302.25/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/pyasn1/compat/integer.py
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* /opt/cola/permits/1125512698_1614699302.25/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/pyasn1/codec/cer/__main__.py
* /opt/cola/permits/1125512698_1614699302.25/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/pyasn1/compat/integer.py
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1.166 pyparsing 3.0.9

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>
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D3DES (V5.09) -

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


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1.181 azure-core 1.24.0

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/**
 * Indicates functionality that is in preview and as such is subject to change in non-backwards compatible ways in
 * future releases, including removal, regardless of any compatibility expectations set by the containing library
 * version.
 *
 * Examples:
 *
 * { @literal @}Beta
 * { @literal @}Beta(since="v1.0.0")
 * { @literal @}Beta(since="v1.2.0", reason="the feature is in preview")
 * { @literal @}Beta("introducing Foo which eventually replaces Bar")
 */

Found in path(s):
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/annotation/Beta.java
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* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/models/GeoLineString.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/paging/ContinuablePagedByPageIterable.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/polling/DefaultSyncPoller.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/policy/HostPolicy.java
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* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/annotation/Generated.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/rest/package-info.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/AccessibleByteArrayOutputStream.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/package-info.java
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* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/util/ReferenceManagerImpl.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/Option.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/package-info.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/HeaderCollectionHandler.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/SemanticVersion.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/ObjectMapperFactory.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/UrlTokenizerState.java
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* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources.jar/com/azure/core/util/paging/ContinuablePagedByItemIterable.java
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* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources.jar/com/azure/core/implementation/http/policy/FixedDelay.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources.jar/com/azure/core/implementation/http/policy/HttpLogDetailLevel.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources.jar/com/azure/core/util/paging/PageRetriever.java

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* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/tracing/TracerProxy.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/rest/SimpleResponse.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/annotation/Fluent.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/annotation/ServiceClient.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/policy/AddDatePolicy.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/exception/ResourceNotFoundException.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/HttpClient.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/policy/AddHeadersFromContextPolicy.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/UnixTimeSerializer.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/JsonPatchDocumentSerializer.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/ResponseError.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/Base64UrlSerializer.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/JacksonVersion.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/JacksonAdapter.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/logging/LogLevel.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/policy/ProtocolPolicy.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/Header.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/HttpMethod.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/exception/ResourceModifiedException.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/FlatteningSerializer.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/HttpClientOptions.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/HttpPipelineNextPolicy.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/policy/AddHeadersPolicy.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/cryptography/KeyEncryptionKeyResolver.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/credential/AzureNamedKey.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/models/GeoPosition.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/DateTimeRfc1123.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/AccessTokenCache.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/paging/ContinuablePage.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/models/GeoLineStringCollection.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/serializer/CollectionFormat.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/models/GeoPolygonCollection.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/ObjectMapperShim.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/HttpHeadersSerializer.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/logging/package-info.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/models/package-info.java

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* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/annotation/FormParam.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/annotation/Delete.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/policy/RedirectPolicy.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/exception/HttpResponseException.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementaton/ReflectionUtils.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/package-info.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/policy/HttpPolicyProvider.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/annotation/Get.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/polling/StatusCheckPollingStrategy.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementaton/util/ByteArrayContent.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/ClientLogger.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/paging/ContinuationState.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/tracing/StartSpanOptions.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/polling/PollResponse.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/rest/EncodedParameter.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementaton/http/package-info.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/util/UserAgentUtil.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/policy/HttpResponseLogger.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementaton/GeoObjectHelper.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementaton/util/BinaryDataContent.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/policy/RetryPolicy.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/http/policy/HttpPipelinePolicy.java
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* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/OptionSerializer.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/OptionSerializerProvider.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/OptionTypeModifier.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/OptionBeanPropertyWriter.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/OptionModule.java
* /opt/cola/permits/1325222409_1652255503.9312432/0/azure-core-1-24-0-sources-jar/com/azure/core/implementation/jackson/OptionPropertiesModifier.java

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1.182 pify 3.0.0
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1.183 tar 1.29b 2ubuntu0.2
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This package was originally debianized by Tim Bishop <tim@bishnet.net> on Wed, 22 Oct 2003 19:16:49 +0100.

Lot of things were rewritten and updated by Bartosz Fenski <fenio@debian.org>, which is now official maintainer.

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

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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1.196 axios 0.19.2

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cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_2.pod
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cpan/Tie-RefHash/*
cpan/Win32API-File/*
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dist/Math-BigInt/*
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.205 libsemanage 2.7 2build2

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includes many contributions from others. The last version released
from CWI was Python 1.2. In 1995, Guido continued his work on Python
at the Corporation for National Research Initiatives (CNRI) in Reston,
Virginia where he released several versions of the software. Python
1.6 was the last of the versions released by CNRI. In 2000, Guido and
the Python core development team moved to BeOpen.com to form the
BeOpen PythonLabs team. Python 2.0 was the first and only release
from BeOpen.com.

Following the release of Python 1.6, and after Guido van Rossum left
CNRI to work with commercial software developers, it became clear that
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with a few minor bug fixes, and with a different license that enables
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1.219 linux-libc-dev 4.19.235-1

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

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M. Welsh, 6 July 1996

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1.225 libffi 3.2.1 8

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1.226 findutils 4.6.0+git+20190209 2
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* GNU xargs
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* GNU locate and its associated utilities were originally
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### 1.228 object.assign 4.1.0

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1.229 lolex 5.1.2
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# 1.230 react-select 4.0.2

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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,-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 '\"s/\(.*\)\.o\[ \:\]*/\1.o $@ : /g\"' > $@; \
 | -s $@ ]\] | rm -f $@

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

## Versioned libraries rules
%.$(SO).$(SO\_TARGET\_VERSION\_MAJOR): %.$(SO).$(SO\_TARGET\_VERSION)
$(RM) $@ && ln -s $({<F} $@

%.$(SO): %.$(SO).$(SO\_TARGET\_VERSION\_MAJOR)
$(RM) $@ && ln -s $({<F}.$(SO).$(SO\_TARGET\_VERSION) $@
## Bind internal references

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

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

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

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1.233 e2fsprogs 1.46.2 2

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

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

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

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$($(SHLIBDIR) $(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) \n $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \n @-$(LDCONFIG)
install-strip: install
install-shlibs-strip:: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 - Unix SMB/CIFS implementation.
 + trivial database library - standalone version

 - trivial database library - private includes
 -
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Theodore Ts'o
23-June-2007

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Version 2, June 1991

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

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1.234 modernc.org-libc 1.9.5

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1.235 sqlalchey 1.3.5+ds1-1

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1.236 hoist-non-react-statics 3.3.2

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## 1.238 python-setuptools 62.3.2
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#### A. HISTORY OF THE SOFTWARE

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

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the 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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  * 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
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* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

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* IPv6 url support and test coverage

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* Generate 'Host' header when using proxies.

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* Add missing WrappedSocket.fileno method in PyOpenSSL

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* Nipunn Koorapati <nipunn1313@gmail.com>
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  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
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* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

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  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
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* 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

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  * Security Warning Documentation update for proper capture
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  * Support for using ConnectionPool and PoolManager as context managers.

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  * Updates to the default SSL configuration

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  * IPv6 bugfixes in testsuite

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  * Made cert digest comparison use a constant-time algorithm.

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  * Bugfix to ca_cert file paths.

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  * 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@gmail.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
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* 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.

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  * Add counter for status_forcelist retries.
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  * Bugfix to pyopenssl vendoring

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  * Logging improvements to include the HTTP(S) port when opening a new connection

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  * Ongoing maintenance

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  * Minor fixes in the test suite

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  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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7.8.3

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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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Data model artifacts for Prometheus.

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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This package was put together by Vaidhyanathan G Mayilrangam <vaidhy@debian.org> and Joel Klecker <espy@debian.org>, using sources obtained from ftp://ftp.gnu.org/gnu/ncurses/ncurses-5.0.tar.gz. Current versions of the ncurses sources are found at ftp://invisible-island.net/ncurses/.

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

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This package is used for testing builds of ncurses.

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

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1.277 path-is-absolute 1.0.1
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1.278 libsepol 2.8 1

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goproperties - properties file decoder for Go

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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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lib/csharp/src/Server/TSimpleServer.cs
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lib/csharp/src/TApplicationException.cs
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%global srcname Deprecated
%global pkgname deprecated

Name: python-%{pkgname}
Version: 1.2.13
Release: 1%{?dist}
Summary: Python decorator to deprecate old python classes, functions or methods
License: MIT
URL: https://github.com/tantale/%{pkgname}
Source0: %{pypi_source}
BuildArch: noarch

%description
Python @deprecated decorator to deprecate old python classes, functions or methods.

%package -n python3-%{pkgname}
Summary: %{summary}
BuildRequires: python3-devel
BuildRequires: python3-setuptools
%{?python_provide:%python_provide python3-%{pkgname}}

%description -n python3-%{pkgname}
Python @deprecated decorator to deprecate old python classes, functions or methods.

%prep
%autosetup -n %{srcname}-%{version}
rm -rf %{pkgname}.egg-info

%build
%py3_build

%install
%py3_install

%files -n python3-%{pkgname}
%license LICENSE.rst
%doc README.md
%{python3_sitelib}/%{pkgname}/
%{python3_sitelib}/%{srcname}-*.egg-info/

%changelog
* Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-2
- Fix python3_sitelib issue

* Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-1
- Initial package

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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.

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--------------------------------------------------------------

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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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py3compile, py3clean and debpython module:
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1.317 p-limit 1.3.0

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1.318 eslint-import-resolver-node 0.3.3

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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 <tfheen@debian.org> took over. The package is now maintained by Graham Wilson <bob@decoy.wox.org>.

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1.322 mitchellh-mapstructure 0.0.0-20170523030023-d0303fe80992

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1.323 sensible-utils 0.0.12

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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
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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
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such a program is covered only if its contents constitute a work based
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writing it). Whether that is true depends on what the Library does
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      charge to all third parties under the terms of this License.

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      table of data to be supplied by an application program that uses
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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
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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
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
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modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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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
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e) Verify that the user has already received a copy of these
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normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
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accompany the operating system. Such a contradiction means you cannot
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Version 3, 29 June 2007

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

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

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

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

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

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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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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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

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

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

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "\"s/A($\*)\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,-Bsymblic

# Dependencies [i.e. map files] for the final library  
BIR\_DEPS=

## Remove shared library 's'
STATIC\_PREFIX\_WHEN\_USED =  
STATIC\_PREFIX =

## End BSD-specific setup

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK: // %bb.0:
; CHECK-NEXT:   ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:   mov v0.d[1], v0.d[0]
; CHECK-NEXT:   ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246:
; preds = %CF246, %BB
%SI163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248:
; preds = %CF248, %CF246
store i8 %SI163, i8* %0
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; RUN: FileCheck --check-prefix=WARN --allow-empty %s <%t

; If this check fails please read test/CodeGen/AArch64/README for instructions on how to resolve it.
; WARN-NOT: warning

; Testing that masked scatters operating on scalable vectors that are
; packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv4i32
; CHECK: call void @llvm.masked.scatter.nxv4i32
define void @masked_scatter_nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, <vscale x 4 x i1> %masks) {
   call void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, i32 0, <vscale x 4 x i1> %masks)
   ret void
}

; Testing that masked scatters operating on scalable vectors of FP
; data that is packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv2f64
; CHECK: call void @llvm.masked.scatter.nxv2f64
define void @masked_scatter_nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, <vscale x 2 x i1> %masks) {
   call void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, i32 0, <vscale x 2 x i1> %masks)
   ret void
}

; Testing that masked scatters operating on scalable vectors of FP
; data that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv2f16
; CHECK: call void @llvm.masked.scatter.nxv2f16
define void @masked_scatter_nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, <vscale x 2 x i1> %masks) {
   call void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, i32 0, <vscale x 2 x i1> %masks)
   ret void
}

; Testing that masked scatters operating on 64-bit fixed vectors are
; scalarized because NEON doesn't have support for masked scatter
; instructions.

; CHECK-LABEL: @masked_scatter_v2f32()
; CHECK-NOT: @llvm.masked.scatter.v2f32(
define void @masked_scatter_v2f32(<2 x float> %data, <2 x float*> %ptrs, <2 x i1> %masks) {
call void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x float*> %ptrs, i32 0, <2 x i1> %masks) 
ret void
}

; Testing that masked scatters operating on 128-bit fixed vectors are
; scalarized because NEON doesn't have support for masked scatter
; instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_scatter_v4i32()
; CHECK-NOT: @llvm.masked.scatter.v4i32(
define void @masked_scatter_v4i32(<4 x i32> %data, <4 x i32*> %ptrs, <4 x i1> %masks) {
call void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x i32*> %ptrs, i32 0, <4 x i1> %masks) 
ret void
}

declare void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, i32 %align, <vscale x 4 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, i32 %align, <vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, i32 %align, <vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x float*> %ptrs, i32 %align, <2 x i1> %masks)
declare void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x i32*> %ptrs, i32 %align, <4 x i1> %masks)

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; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -scalarize-masked-mem-intrin -S < %s >%t | FileCheck %s
; RUN: FileCheck --check-prefix=WARN --allow-empty %s <%t

; If this check fails please read test/CodeGen/AArch64/README for instructions on how to resolve it.
; WARN-NOT: warning

; Testing that masked gathers operating on scalable vectors that are packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv4i32(
; CHECK: call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32
define <vscale x 4 x i32> @masked_gather_nxv4i32(<vscale x 4 x i32*> %ld, <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru) {
%res = call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x i32*> %ld, i32 0, <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru)
ret <vscale x 4 x i32> %res
}

; Testing that masked gathers operating on scalable vectors of FP data that is packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv2f64(
; CHECK: call <vscale x 2 x double> @llvm.masked.gather.nxv2f64
define <vscale x 2 x double> @masked_gather_nxv2f64(<vscale x 2 x double*> %ld, <vscale x 2 x i1> %masks, <vscale x 2 x double> %passthru) {
%res = call <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x double*> %ld, i32 0, <vscale x 2 x i1> %masks, <vscale x 2 x double> %passthru)
Testing that masked gathers operating on scalable vectors of FP data
that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv2f16(
; CHECK: call <vscale x 2 x half> @llvm.masked.gather.nxv2f16
define <vscale x 2 x half> @masked_gather_nxv2f16(<vscale x 2 x half*> %ld, <vscale x 2 x i1> %masks, <vscale
x 2 x half> %passthru) {
  %res = call <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x half*> %ld, i32 0, <vscale x 2 x i1>
%masks, <vscale x 2 x half> %passthru)
  ret <vscale x 2 x half> %res
}

; Testing that masked gathers operating on 64-bit fixed vectors are
; scalarized because NEON doesn’t have support for masked gather
; instructions.

; CHECK-LABEL: @masked_gather_v2f32(
; CHECK-NOT: @llvm.masked.gather.v2f32(
define <2 x float> @masked_gather_v2f32(<2 x float*> %ld, <2 x i1> %masks, <2 x float> %passthru) {
  %res = call <2 x float> @llvm.masked.gather.v2f32(<2 x float*> %ld, i32 0, <2 x i1> %masks, <2 x float>
%passthru)
  ret <2 x float> %res
}

; Testing that masked gathers operating on 128-bit fixed vectors are
; scalarized because NEON doesn’t have support for masked gather
; instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_gather_v4i32(
; CHECK-NOT: @llvm.masked.gather.v4i32(
define <4 x i32> @masked_gather_v4i32(<4 x i32*> %ld, <4 x i1> %masks, <4 x i32> %passthru) {
  %res = call <4 x i32> @llvm.masked.gather.v4i32(<4 x i32*> %ld, i32 0, <4 x i1> %masks, <4 x i32>
%passthru)
  ret <4 x i32> %res
}

...
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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py
; RUN: opt -S -verify -iroutliner -ir-outlining-no-cost < %s | FileCheck %s

; This test looks ahecks that debug info is extracted along with the other
; instructions.

define void @function1() !dbg !6 {
    ; CHECK-LABEL: @function1(
    ; CHECK-NEXT: entry:
define void @function2() !dbg !27 {
    ; entry:
    %a = alloca i32, align 4, !dbg !35
    ...
call void @llvm.dbg.value(metadata i32* %a, metadata !29, metadata !DIExpression()), !dbg !35
%b = alloca i32, align 4, !dbg !36
call void @llvm.dbg.value(metadata i32* %b, metadata !30, metadata !DIExpression()), !dbg !36
%c = alloca i32, align 4, !dbg !37
store i32 2, i32* %a, align 4, !dbg !38
store i32 3, i32* %b, align 4, !dbg !39
store i32 4, i32* %c, align 4, !dbg !40
%al = load i32, i32* %a, align 4, !dbg !41
call void @llvm.dbg.value(metadata i32 %al, metadata !32, metadata !DIExpression()), !dbg !41
%bl = load i32, i32* %b, align 4, !dbg !42
call void @llvm.dbg.value(metadata i32 %bl, metadata !33, metadata !DIExpression()), !dbg !42
%cl = load i32, i32* %c, align 4, !dbg !43
call void @llvm.dbg.value(metadata i32 %cl, metadata !34, metadata !DIExpression()), !dbg !43
ret void, !dbg !44
}

; Function Attrs: nounwind readnone speculatable willreturn
declare void @llvm.dbg.value(metadata, metadata, metadata) #0

attributes #0 = { nounwind readnone speculatable willreturn }

!!llvm.dbg.cu = !{{0}}
!!llvm.debugify = !{{13, 14}}
!!llvm.module.flags = !{{5}}

!0 = distinct !DICompileUnit(language: DW_LANG_C, file: !1, producer: "debugify", isOptimized: true, runtimeVersion: 0, emissionKind: FullDebug, enums: !2)
!1 = !DIFile(filename: "legal-debug.ll", directory: "/")
!2 = !{}
!3 = !{{i32 20}}
!4 = !{{i32 12}}
!5 = !{{i32 2, !"Debug Info Version", i32 3}}
!6 = distinct !DISubprogram(name: "function1", linkageName: "function1", scope: null, file: !1, line: 1, type: !7, scopeLine: 1, spFlags: DISPFlagDefinition | DISPFlagOptimized, unit: !0, retainedNodes: !8)
!7 = !DISubroutineType(types: !2)
!8 = !{{9, !11, !12, !13, !15, !16}}
!9 = !DILocalVariable(name: "1", scope: !6, file: !1, line: 1, type: !10)
!10 = !DIBasicType(name: "ty64", size: 64, encoding: DW_ATE_unsigned)
!11 = !DILocalVariable(name: "2", scope: !6, file: !1, line: 2, type: !10)
!12 = !DILocalVariable(name: "3", scope: !6, file: !1, line: 3, type: !10)
!13 = !DILocalVariable(name: "4", scope: !6, file: !1, line: 7, type: !14)
!14 = !DIBasicType(name: "ty32", size: 32, encoding: DW_ATE_unsigned)
!15 = !DILocalVariable(name: "5", scope: !6, file: !1, line: 8, type: !14)
!16 = !DILocalVariable(name: "6", scope: !6, file: !1, line: 9, type: !14)
!17 = !DILocation(line: 1, column: 1, scope: !6)
!18 = !DILocation(line: 2, column: 1, scope: !6)
!19 = !DILocation(line: 3, column: 1, scope: !6)
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
}

; 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 don't 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)
define fp128 @TestSelect(fp128 %a, fp128 %b) {

; CHECK-LABEL: TestSelect:
; CHECK:       # %bb.0:
; CHECK-NEXT:   pushq %rbx
; CHECK-NEXT:   .cfi_def_cfa_offset 16
; CHECK-NEXT:   subq $32, %rsp
; CHECK-NEXT:   .cfi_def_cfa_offset 48
; CHECK-NEXT:   .cfi_offset %rbx, -16
; CHECK-NEXT:   movaps %xmm1, {{[-0-9]+}}(%r{{[sb]}}p) # 16-byte Spill
; CHECK-NEXT:   movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:   callq __gttf2
; CHECK-NEXT:   movl %eax, %ebx
; CHECK-NEXT:   movaps (%rsp), %xmm0 # 16-byte Reload
; CHECK-NEXT:   movaps {{[-0-9]+}}(%r{{[sb]}}p), %xmm1 # 16-byte Reload
; CHECK-NEXT:   callq __subtf3

define fp128 @TestFabs(fp128 %a) {
; CHECK-LABEL: TestFabs:
; CHECK: # %bb.0:
; CHECK-NEXT: andps {{.*}}(%rip), %xmm0
; CHECK-NEXT: retq
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestCopysign:
; CHECK: # %bb.0:
; CHECK-NEXT: andps {{.*}}(%rip), %xmm1
; CHECK-NEXT: orps %xmm1, %xmm0
; CHECK-NEXT: retq
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
; CHECK-LABEL: TestFneg:
; CHECK: # %bb.0:
; CHECK-NEXT: pushq %rax
; CHECK-NEXT: .cfi_def_cfa_offset 16
; CHECK-NEXT: movaps %xmm0, %xmm1
; CHECK-NEXT: callq __multf3
; CHECK-NEXT: xorps {{.*}}(%rip), %xmm0
; CHECK-NEXT: popq %rax
; CHECK-NEXT: .cfi_def_cfa_offset 8
; CHECK-NEXT: retq
%mul = fmul fp128 %a, %a

---

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%res = fsub fp128 0xL00000000000080000000000000000000, %mul
ret fp128 %res

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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 = "i686-unknown-linux-gnu"

; 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 805874719 to i8*)
  store i8 %2, i8* inttoptr(i32 805874692 to i8*)
  store i8 %1, i8* inttoptr(i32 805874688 to i8*)
  ret void
}

@goo = global i8* undef

define void @foo_i16() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805873720 to i32)
  %1 = load volatile i8, i8* inttoptr (i32 805873688 to i32)
  %2 = load volatile i8, i8* inttoptr (i32 805873688 to i32)
  %3 = load volatile i8, i8* inttoptr (i32 805873720 to i32)
  %4 = load volatile i8, i8* inttoptr (i32 805873688 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
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
}

define void @foo_i32 {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 2
%1 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 2
%2 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 2
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 2
%4 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 2
%5 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 2
ret void
}
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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--------------------------------------------------------------------------------

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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
  ; 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
}

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:
  ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
  ; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT: ret void
}

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%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_prefer512_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_Val]])
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT: ret void
  
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)

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%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

bb:
%tmp = load <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64> %arg, 
<8 x i64>* %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_HIDDEN:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x
i64>* [[TMP_HIDDEN]], <8 x i64>* [[ARG]])
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, 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_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_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64> %arg, 
<8 x i64>* %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_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]]
open source used in cisco telemetry broker on prem 1.3.1

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
}

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
; CHECK-LABEL: define ([^@]+) @callee_avx512_legal512_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
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
; CHECK-LABEL: define ([^@]+) @callee_avx512_legal512_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>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

}
define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
    ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
    ; CHECK-SAME: (\<8 x i64\>* [[ARG:.*]]
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:.*]] = alloca \<8 x i64\>, align 32
    ; CHECK-NEXT: [[TMP2:.*]] = alloca \<8 x i64\>, align 32
    ; CHECK-NEXT: [[TMP3:.*]] = bitcast \<8 x i64\>* [[TMP]] to i8*
    ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
    ; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* [[TMP2]], \<8 x i64\>* [[TMP]])
    ; CHECK-NEXT: [[TMP4:.*]] = load \<8 x i64\>, \<8 x i64\>* [[TMP2]], align 32
    ; CHECK-NEXT: store \<8 x i64\> [[TMP4]], \<8 x i64\>* [[ARG]], align 2
    ; CHECK-NEXT: ret void

    bb:
    %tmp = alloca \<8 x i64\>, align 32
    %tmp2 = alloca \<8 x i64\>, align 32
    %tmp3 = bitcast \<8 x i64\>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, \<8 x i64\>* %tmp)
    %tmp4 = load \<8 x i64\>, \<8 x i64\>* %tmp2, align 32
    store \<8 x i64\> %tmp4, \<8 x i64\>* %arg, align 2
    ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, \<8 x i64\>* readonly %arg1) #3 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; CHECK-SAME: (\<8 x i64\>* [[ARG:.*]], \<8 x i64\> [[ARG1_VAL:.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: store \<8 x i64\> [[ARG1_VAL]], \<8 x i64\>* [[ARG]]
    ; CHECK-NEXT: ret void

    bb:
    %tmp = load \<8 x i64\>, \<8 x i64\>* %arg1
    store \<8 x i64\> %tmp, \<8 x i64\>* %arg
    ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
    ; CHECK-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; CHECK-SAME: (\<8 x i64\>* [[ARG:.*]])
    ; CHECK-NEXT: bb:

define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
  ; CHECK-LABEL: define
  {{[^@]+}}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (i32 
  ; CHECK-NEXT:    %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 
  ; CHECK-NEXT:    %A = alloca i32
  ; CHECK-NEXT:    store i32 1, i32* %A
  ; CHECK-NEXT:    %C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
  ret i32 %C
}
If the arguments are scalar, it's ok to promote.

```assembly
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32* %Y) #2 {
    ; CHECK-LABEL: define {
    @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
    ; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
    ; CHECK-NEXT:   [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
    ; CHECK-NEXT:   ret i32 [[C]]
    ;
    %A = load i32, i32* %X
    %B = load i32, i32* %Y
    %C = add i32 %A, %B
    ret i32 %C
}

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
    ; CHECK-LABEL: define {
    @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256
    ; CHECK-SAME: (i32* [[B:%.*]])
    ; CHECK-NEXT:   [[A:%.*]] = alloca i32
    ; CHECK-NEXT:   store i32 1, i32* [[A]]
    ; CHECK-NEXT:   [[A_VAL:%.*]] = load i32, i32* [[A]]
    ; CHECK-NEXT:   [[B_VAL:%.*]] = load i32, i32* [[B]]
    ; CHECK-NEXT:   [[C:%.*]] = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
    ; CHECK-NEXT:   ret i32 [[C]]
    ;
    %A = alloca i32
    store i32 1, i32* %A
    %C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %A, i32* %B)
    ret i32 %C
}
```

; Function Attrs: argmemonly nounwind

```assembly
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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; 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 vpaddw+vpadddd
; RUN: llc %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define dso_local 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: vpaddd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpaddd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void

define dso_local 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: vpaddd (%rsi), %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 dso_local 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>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define dso_local 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, 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, 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 dso_local 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: vmovdqa32 (%rsi), %ymm0
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqu32 %ymm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <32 x i16>, <32 x i16>* %APtr
%2 = load <32 x i16>, <32 x i16>* %BPtr
%3 = load <16 x i32>, <16 x i32>* %CPtr
%4 = zext <32 x i16> %1 to <32 x i32>
%5 = zext <32 x i16> %2 to <32 x i32>
%6 = add nuw nsw <32 x i32> %4, %5
%7 = lshr <32 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, i32 1, i32 1>
%8 = trunc <32 x i32> %7 to <32 x i16>
store <32 x i16> %8, <32 x i16>* undef, align 4
ret void
}
define dso_local 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: vmovdqa %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 dso_local 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: vmovdqa %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 dso_local 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), %yymm0
; CHECK-NEXT: vmovdqa %yymm1, 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 dso_local 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), %yymm0
; CHECK-NEXT: vmovdqa %yymm1, 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 dso_local void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %y.ptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %y.ptr
    %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 dso_local @Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %y.ptr
    %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
}
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 unde
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%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>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}
define dso_local 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, %ymm1
    ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
}
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
; 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 i8 <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>
%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>
%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>
%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>
%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, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 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
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = dso_local global [1024 x i8] zeroinitializer, align 16
@b = dso_local global [1024 x i8] zeroinitializer, align 16
define dso_local i32 @sad_16i8_256() "min-legal-vector-width"="256" {
  ; CHECK-LABEL: sad_16i8_256:
  ; CHECK:  # %bb.0: # %entry
  ; CHECK-NEXT:  vxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT:  vxor %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
  ; 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, %xmm1
  ; CHECK-NEXT:     vpadd %ymm1, %xmm0, %ymm0
  ; CHECK-NEXT:     vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
  ; CHECK-NEXT:     vpadd %ymm1, %ymm0, %ymm0
  ; CHECK-NEXT:     vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
  ; CHECK-NEXT:     vpadd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:     vmovd %ymm0, %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>*
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> %index.next
%bin.rdx = add <16 x i32> 4, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> undef
%bin.rdx2 = add <16 x i32> %rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> %index.next
%bin.rdx3 = add <16 x i32> %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> undef
%bin.rdx4 = add <16 x i32> %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define dso_local i32 @sad_16i8_512() "min-legal-vector-width"="512" {
 ; CHECK-LABEL: sad_16i8_512:
 ; CHECK: # %bb.0: # %entry
 ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
 ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
 ; CHECK-NEXT: .p2align 4, 0x90
 ; CHECK-NEXT: .LBB11_1: # %vector.body
 ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
 ; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
 ; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
 ; CHECK-NEXT: vpadd %xmm0, %xmm1, %xmm0
 ; CHECK-NEXT: addq $4, %rax
 ; CHECK-NEXT: jne .LBB11_1
 ; CHECK-NEXT: # %bb.2: # %middle.block
entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %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> %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 def
define dso_local 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, zeroinitialzier
 %1 = sitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define dso_local 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, zeroinitialzier
 %1 = sitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define dso_local 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 %zmm0, %ymm1

define dso_local void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK: 
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtqd2ps %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 dso_local void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK: 
; 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 %xmm0, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtqd2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT: vcvtqd2pd %ymm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtqd2pd %xmm2, %ymm2
; CHECK-NEXT: vpmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vpmovaps %ymm3, (%rdi)
; CHECK-NEXT: vpmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vpmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define dso_local void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
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: vcvtpps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k0
    ; CHECK-NEXT: vcvtpps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: kunpckbw %k0, %k1, %k1
    ; 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_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32tosb_512:
    ; CHECK:
    # %bb.0:
    ; CHECK-NEXT: vcvtpps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k0
    ; CHECK-NEXT: vcvtpps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: kunpckbw %k0, %k1, %k1
    ; 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 dso_local 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 =

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ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT:  vmovdqa {{.*#+}} ymm5 =
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm3 =
ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm1 =
ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vzeroupper
; CHECK-AVX512-NEXT:  retq

; CHECK-VBMI-LABEL:  mul256:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vmovdqa {{.*#+}} 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]
define dso_local void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
    ; CHECK-AVX512-LABEL: mul512:
    ; CHECK-AVX512: # %bb.0:
    ; CHECK-AVX512-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-AVX512-NEXT: vmovdqa64 (%rsi), %zmm1
    ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm2 =
    zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
    2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]  
    ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm3 =
    zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
    2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]  
    ; CHECK-AVX512-NEXT: vpnullw %zmm2, %zmm3, %zmm2
    ; CHECK-AVX512-NEXT: vpmullw %zmm2, %zmm3, %zmm2
    ; CHECK-AVX512-NEXT: vzeroupper
    ; CHECK-AVX512-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
}
; 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[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm3 = zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} zmm1 = zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} zmm0 = zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT:  vmovdqa64 {{.*#+}} zmm1 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,86,88,90,92,94,96,98,100,102,104,106,108,110,112,114,116,118,120,122,124,126]
; CHECK-VBMI-NEXT:  vperm2b %zmm2, %zmm0, %zmm1
; CHECK-VBMI-NEXT:  vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT:  vzeroupper
; CHECK-VBMI-NEXT:  retq

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
; CHECK-LABEL:  mload_v4i32:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vptestnmd %xmm0, %xmm0, %k1
; CHECK-NEXT:  vblendmd (%rdi), %xmm1, %xmm0 {%k1}
; CHECK-NEXT:  retq
%mask = icmp eq <4 x i32> %trigger, zeroinitializer
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32>
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovdb %ymm1, %xmm1
; CHECK-NEXT: vpmovdb %ymm0, %xmm0
; CHECK-NEXT: vpmovdb %ymm1, %ymm1
; CHECK-NEXT: vpmovdb %ymm0, %ymm0
; CHECK-NEXT: vpmovdb %ymm1, %ymm1
; CHECK-NEXT: vpmovdb %ymm0, %ymm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = trunc <16 x i32> %a to <16 x i8>
ret <16 x i8> %b
;
define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovdb %ymm1, %xmm1
; CHECK-NEXT: vpmovdb %ymm0, %xmm0
; CHECK-NEXT: vpmovdb %ymm1, %ymm1
; CHECK-NEXT: vpmovdb %ymm0, %ymm0
; CHECK-NEXT: vpmovdb %ymm1, %ymm1
; CHECK-NEXT: vpmovdb %ymm0, %ymm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i8>
ret <8 x i8> %b
;
define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i16:
; CHECK:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqw %ymm1, %xmm1
; CHECK-NEXT: vpmovqw %ymm0, %xmm0
; CHECK-NEXT: vpmovqw %ymm1, %ymm1
; CHECK-NEXT: vpmovqw %ymm0, %ymm0
; CHECK-NEXT: vpmovqw %ymm1, %ymm1
; CHECK-NEXT: vpmovqw %ymm0, %ymm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
;
define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK:
; CHECK-NEXT: vpsrlq $48, 32(%rdi), %ymm0
; CHECK-NEXT: vpsrlq $48, (%rdi), %ymm1
; CHECK-NEXT: vpsrlq $48, (32(%rdi), %ymm0
; CHECK-NEXT: vpackusdw %ymm0, %ymm1, %ymm0

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; CHECK-NEXT:  vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT:  retq
%a = load <8 x i64>, <8 x i64>* %x
%b = lshr <8 x i64> %a, s64 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, s32 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 i16> @trunc_v32i16_v32i16_zeroes(<32 x i16)* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL:  trunc_v32i16_v32i16_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:  vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-AVX512-NEXT:  retq
; CHECK-VBMI-LABEL:  trunc_v32i16_v32i16_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
; CHECK-VBMI-NEXT:  retq
%a = load <32 x i16>, <32 x i16>* %x
%b = lshr <32 x i16> %a, s16 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 <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:
define dso_local void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: zext_v16i8_v16i64:
    ; CHECK:
    ; 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: vpsubbw {{.*#+}} xmm2 = xmm1[2,3,2,3]
    ; CHECK-NEXT: vpmovzxwq {{.*#+}} ymm2 = xmm2[0],zero,zero,xmm2[1],zero,zero,xmm2[2],zero,zero,xmm2[3],zero,zero,zero
    ; CHECK-NEXT: vextracti128 $1, %ymm1, %xmm1
    ; CHECK-NEXT: vpsubbw {{.*#+}} xmm3 = xmm1[2,3,2,3]
    ; CHECK-NEXT: vpmovzxwq {{.*#+}} ymm3 = xmm3[0],zero,zero,xmm3[1],zero,zero,xmm3[2],zero,zero,xmm3[3],zero,zero,zero
    ; CHECK-NEXT: vpmovvbq {{.*#+}} ymm0 = xmm0[0],zero,zero,zero,zero,zero,zero,zero,zero,zero,zero,zero,zero,zero,zero,zero
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdi)
    ; CHECK-NEXT: vmovdqa %ymm1, 64(%rdi)
    ; CHECK-NEXT: vmovdqa %ymm2, 32(%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 dso_local void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sext_v16i8_v16i64:
    ; CHECK:
    ; CHECK-NEXT: vpmovzxbw %xmm0, %ymm1
    ; CHECK-NEXT: vpsubbw {{.*#+}} xmm2 = xmm1[2,3,2,3]
    ; CHECK-NEXT: vpmovzxwq %xmm2, %ymm2
    ; CHECK-NEXT: vextracti128 $1, %ymm1, %xmm1
    ; CHECK-NEXT: vpsubbw {{.*#+}} xmm3 = xmm1[2,3,2,3]
    ; CHECK-NEXT: vpmovzxwq %xmm3, %ymm3
    ; CHECK-NEXT: vpmovvbq %ymm0 = xmm0[0],zero,zero,zero,zero,zero,zero,zero,zero,zero,zero,zero,zero,zero,zero,zero
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdi)
    ; CHECK-NEXT: vmovdqa %ymm1, 64(%rdi)
    ; CHECK-NEXT: vmovdqa %ymm2, 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
}
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; 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 dso_local 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 dso_local void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i32_setcc:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqd %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrb $4, %k1, %k2
; CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 [%k2]
; CHECK-NEXT: vmovdqa64 (%rdi), %ymm2 [%k1]
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <8 x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i32> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r

ret void
}

define dso_local 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: vmovdqa32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqb %ymm1, %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 dso_local 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: vmovdqa32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {  

define dso_local 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: vpckusdw 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 sgt <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, i32 255>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%d = icmp slt <16 x i32> %c, zeroinitialize
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitialize
%f = trunc <16 x i32> %e to <16 x i8>
ret <16 x i8> %f
}

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 dso_local 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), %ymmm0
; CHECK-NEXT: vptestnmb %ymm1, %ymmm1, %k0
; CHECK-NEXT: kshiftr $1, %k0, %k1
; CHECK-NEXT: movq $-3, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrq %s3, %k0, %k2
; CHECK-NEXT: kshiftrq %s63, %k2, %k2
; CHECK-NEXT: kshiftrq %s61, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-5, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrq %s3, %k0, %k2
; CHECK-NEXT: kshiftrq %s63, %k2, %k2
; CHECK-NEXT: kshiftrq %s60, %k2, %k2
; CHECK-NEXT: kcorq %k2, %k2, %k1
; CHECK-NEXT: movq $-9, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrq %s5, %k0, %k2
; CHECK-NEXT: kshiftrq %s63, %k2, %k2
; CHECK-NEXT: kshiftrq %s59, %k2, %k2
; CHECK-NEXT: kshiftrq %s58, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-17, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrq %s5, %k0, %k2
; CHECK-NEXT: kshiftrq %s63, %k2, %k2
; CHECK-NEXT: kshiftrq %s59, %k2, %k2
; CHECK-NEXT: kshiftrq %s58, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-33, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrq %s4, %k0, %k2
; CHECK-NEXT: kshiftrq %s63, %k2, %k2
; CHECK-NEXT: kshiftrq %s58, %k2, %k2
; CHECK-NEXT: kshiftrq %s57, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
}
; CHECK-NEXT:  movq $-129, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $6, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $56, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $9, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $55, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-513, %rax # imm = 0xFDFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $8, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $54, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $11, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $53, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $10, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $52, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $13, %k0, %k2
; CHECK-NEXT:  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 = 0xFFFFEFFF
; 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 $47, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-131073, %rax # imm = 0xFFFFDFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $16, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $46, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-262145, %rax # imm = 0xFFFFBFFF
; 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 = 0xFFFF7FFF
; 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 = 0xFFFFEFFF
; 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 = 0xFFFFDFFF
; 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 = 0xFFBFFFFF
; 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 = 0xFF7FFFFF
; 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 = 0xFEFFFFFFFF
; 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:  kshiftrd $3, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $29, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-34359738369, %rax # imm = 0xFFFFFFFF7FFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $2, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $28, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-68719476737, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $5, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $27, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-137438953473, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $4, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $26, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-274877906945, %rax # imm = 0xFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $7, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $25, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-549755813889, %rax # imm = 0xFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $6, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $24, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-1099511627777, %rax # imm = 0xFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $9, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $23, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-2199023255553, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
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; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $17, %k1, %k2
; CHECK-NEXT:    kshifthlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $15, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-562949953421313, %rax # imm = 0xFFDFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $16, %k1, %k2
; CHECK-NEXT:    kshifthlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $14, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-1125899906842625, %rax # imm = 0xFFFBBBBBBBBBBBBBB
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $19, %k1, %k2
; CHECK-NEXT:    kshifthlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $13, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-2251799813685249, %rax # imm = 0xFFF7FFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $18, %k1, %k2
; CHECK-NEXT:    kshifthlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $12, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-4503599627370497, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $21, %k1, %k2
; CHECK-NEXT:    kshifthlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $11, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-9007199254740993, %rax # imm = 0xFFDFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $20, %k1, %k2
; CHECK-NEXT:    kshifthlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $10, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-18014398509481985, %rax # imm = 0xFFFBBBBBBBBBBBBBB
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $23, %k1, %k2
; CHECK-NEXT:    kshifthlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $9, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0

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; CHECK-NEXT: movabsq $-36028797018963969, %rax # imm = 0xFF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $22, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $8, %k2, %k2
; CHECK-NEXT: krorq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $25, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $7, %k2, %k2
; CHECK-NEXT: krorq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-144115188075855873, %rax # imm = 0xFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $24, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $6, %k2, %k2
; CHECK-NEXT: krorq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-288230376151711745, %rax # imm = 0xFBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $27, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $5, %k2, %k2
; CHECK-NEXT: krorq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-576460752303423489, %rax # imm = 0xF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $26, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $4, %k2, %k2
; CHECK-NEXT: krorq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1152921504606846977, %rax # imm = 0xEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $29, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $3, %k2, %k2
; CHECK-NEXT: krorq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2305843009213693953, %rax # imm = 0xDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $28, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $2, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-461168601827387905, %rax # imm = 0xFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $31, %k1, %k2
; CHECK-NEXT:    kshiftrq $62, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $30, %k1, %k1
; CHECK-NEXT:    kshiftlq $62, %k2, %k2
; CHECK-NEXT:    kshiftrq $32, %k1, %k0
; CHECK-NEXT:    vmovdqu8 %ymm1, (%rsi) {%k1}
; CHECK-NEXT:    kshiftrq $32, %k1, %k1
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
element:
    %a = load <64 x i8>, <64 x i8>* %x
    %b = icmp eq <64 x i8> %a, zeroninalizer
    %shuf = shufflevector <64 x i1> %b, undef, <64 x i32> %i32
    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 = dso_local global i64 0, align 8
@mem64_src = dso_local global i64 0, align 8
define dso_local i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
    ; CHECK-LABEL: v64i1_inline_asm:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT:    kmovq {{.*}}(%rip), %k0
    ; CHECK-NEXT:    kmovq %k0, {{.*}}(%rip)
    ; CHECK-NEXT:    movl -{{[0-9]+}}(%rsp), %eax
    ; CHECK-NEXT:    retq
    %1 = alloca i32, align 4
    %2 = load i64, i64* @mem64_src, align 8
    %3 = call i64 asm "".""=k,k,~{dirflag},~{fpsr},~{flags}""(i64 %2)
    store i64 %3, i64* @mem64_dst, align 8
    %4 = load i32, i32*, %1, align 4
    ret i32 %4
}
define dso_local 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: vpcmptq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vpcmptq (%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
}

define dso_local void @cmp_v8i64_zext(8 x i64)* %xptr, 8 x i64)* %yptr, 8 x i64>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: cmp_v8i64_zext:
; CHECK:   # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpcmptq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vpcmptq (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpsrlq $63, %ymm1, %ymm1
; CHECK-NEXT: vpsrlq $63, %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load 8 x i64>, 8 x i64>* %xptr
%y = load 8 x i64>, 8 x i64>* %yptr
%cmp = icmp slt 8 x i64>, %x, %y
%ext = zext 8 x i1> %cmp to 8 x i64>
store 8 x i64> %ext, 8 x i64>* %zptr
ret void
}
define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v16i8:
; CHECK:   # %bb.0:
; CHECK-NEXT: vmovdqa {%.*#+} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT: vpsubb %xmm1, %xmm2, %xmm2
; CHECK-NEXT:    vpmovzbw {{.*#+}} ymm1 =
  xmm1[0],zero,xmm1[1],zero,xmm1[2],zero,xmm1[3],zero,xmm1[4],zero,xmm1[5],zero,xmm1[6],zero,xmm1[7],zero,
xmm1[8],zero,xmm1[9],zero,xmm1[10],zero,xmm1[11],zero,xmm1[12],zero,xmm1[13],zero,xmm1[14],zero,xmm1[15],zero
; CHECK-NEXT:    vpmovzbw {{.*#+}} ymm0 =
  xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,
xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
; CHECK-NEXT:    vpsllv %ymm1, %ymm0, %ymm1
; CHECK-NEXT:    vpmovzbw {{.*#+}} ymm2 =
  xmm2[0],zero,xmm2[1],zero,xmm2[2],zero,xmm2[3],zero,xmm2[4],zero,xmm2[5],zero,xmm2[6],zero,xmm2[7],zero,
xmm2[8],zero,xmm2[9],zero,xmm2[10],zero,xmm2[11],zero,xmm2[12],zero,xmm2[13],zero,xmm2[14],zero,xmm2[15],zero
; CHECK-NEXT:    vpsrlv %ymm2, %ymm0, %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, %b8
%or = or <16 x i8> %shl, %lshr
ret <16 x i8> %or
}

define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" { ; CHECK-LABEL: var_rotate_v32i8:
; CHECK:    # %bb.0:
; CHECK-NEXT:    vpsllw $4, %ymm0, %ymm2
; CHECK-NEXT:    vpsrlw $4, %ymm0, %ymm3
; CHECK-NEXT:    vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT:    vpsllw $5, %ymm1, %ymm1
; CHECK-NEXT:    vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT:    vpsllw $2, %ymm0, %ymm2
; CHECK-NEXT:    vpsrlw $6, %ymm0, %ymm3
; CHECK-NEXT:    vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT:    vpaddb %ymm1, %ymm1, %ymm1
; CHECK-NEXT:    vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT:    vpsrlw $7, %ymm0, %ymm2
; CHECK-NEXT:    vpaddb %ymm0, %ymm0, %ymm0
; CHECK-NEXT:    vpternlogq $248, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT:    vpaddb %ymm1, %ymm1, %ymm1
; CHECK-NEXT:    vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT:    retq
%
%b8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %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-AVX512-LABEL: splatvar_rotate_v32i8:
  ; CHECK-AVX512: # %bb.0:
  ; CHECK-AVX512-NEXT: vpbroadcastb %xmm1, %xmm1
  ; CHECK-AVX512-NEXT: vpand {{.*}}(%rip), %xmm1, %xmm1
  ; CHECK-AVX512-NEXT: vpmovzbqb {{.*#+}} xmm2 = 
    xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
  ; CHECK-AVX512-NEXT: vpsllw %xmm2, %ymm0, %ymm3
  ; CHECK-AVX512-NEXT: vpcmpeqd %xmm4, %xmm4, %xmm4
  ; CHECK-AVX512-NEXT: vpsllw %xmm2, %xmm4, %xmm2
  ; CHECK-AVX512-NEXT: vpbroadcastb %xmm2, %ymm2
  ; CHECK-AVX512-NEXT: vpand %ymm2, %ymm3, %ymm2
  ; CHECK-AVX512-NEXT: vmovdqa {{.*#+}} xmm1 = 
    xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
  ; CHECK-AVX512-NEXT: vpsrlw %xmm1, %ymm0, %ymm5
  ; CHECK-AVX512-NEXT: vpsrlw %xmm1, %xmm4, %xmm0
  ; CHECK-AVX512-NEXT: vpsrlw $8, %xmm0, %xmm0
  ; CHECK-AVX512-NEXT: vpbroadcastb %xmm0, %ymm0
  ; CHECK-AVX512-NEXT: vpternlogq $236, %ymm5, %ymm2, %ymm0
  ; CHECK-AVX512-NEXT: retq
  ;
  ; CHECK-VBMI-LABEL: splatvar_rotate_v32i8:
  ; CHECK-VBMI: # %bb.0:
  ; CHECK-VBMI-NEXT: vpbroadcastb %xmm1, %xmm1
  ; CHECK-VBMI-NEXT: vpand {{.*}}(%rip), %xmm1, %xmm1
  ; CHECK-VBMI-NEXT: vpmovzbqb {{.*#+}} xmm2 = 
    xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
  ; CHECK-VBMI-NEXT: vpsllw %xmm2, %ymm0, %ymm3
  ; CHECK-VBMI-NEXT: vpcmpeqd %xmm4, %xmm4, %xmm4
  ; CHECK-VBMI-NEXT: vpsllw %xmm2, %xmm4, %xmm2
  ; CHECK-VBMI-NEXT: vpbroadcastb %xmm2, %ymm2
  ; CHECK-VBMI-NEXT: vpand %ymm2, %ymm3, %ymm2
  ; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} xmm3 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
  ; CHECK-VBMI-NEXT: vpsubb %xmm1, %xmm3, %xmm1
  ; CHECK-VBMI-NEXT: vpmovzxbq {{.*#+}} xmm1 = 
    xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
  ; CHECK-VBMI-NEXT: vpsrlw %xmm1, %ymm0, %ymm5
  ; CHECK-VBMI-NEXT: vpsrlw %xmm1, %xmm4, %xmm0
  ; CHECK-VBMI-NEXT: vpsrlw $8, %xmm0, %xmm0
  ; CHECK-VBMI-NEXT: vpbroadcastb %ymm1, %ymm0
  ; CHECK-VBMI-NEXT: vpternlogq $236, %ymm5, %ymm2, %ymm0
  ; CHECK-VBMI-NEXT: retq
}
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:    vpuschkbw {..} %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-AVX512-NEXT:    vpsllw {..}(%rip), %ymm3, %ymm3
    \CHECK-AVX512-NEXT:    vpsrlw $8, %ymm3, %ymm3
    \CHECK-AVX512-NEXT:    vpunpcklbw {..} %ymm0 = ymm0[0],ymm2[0],ymm0[1],ymm2[1],ymm0[2],ymm2[2],ymm0[3],ymm2[3],ymm0[4],ymm2[4],ymm0[5],ymm2[5],ymm0[6],ymm2[6],ymm0[7],ymm2[7],ymm0[16],ymm2[16],ymm0[17],ymm2[17],ymm0[18],ymm2[18],ymm0[19],ymm2[19],ymm0[20],ymm2[20],ymm0[21],ymm2[21],ymm0[22],ymm2[22],ymm0[23],ymm2[23]
    \CHECK-AVX512-NEXT:    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

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define <32 x i8> @splatconstant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {  
    %shl = shl <32 x i8> %a, <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>
    %lshr = lshr <32 x i8> %a, <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>
    %or = or <32 x i8> %shl, %lshr
    ret <32 x i8> %or
}
define <32 x i8> @splatconstant_rotate_mask_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: splatconstant_rotate_mask_v32i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpsllw $4, %ymm0, %ymm1
    ; CHECK-NEXT:    vpsrlw $4, %ymm0, %ymm0
    ; CHECK-NEXT:    vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
    ; CHECK-NEXT:    vpand {{.*}}(%rip), %ymm0, %ymm0
    ; CHECK-NEXT:    retq
    %shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4
    %lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, 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
    %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
    %or = or <32 x i8> %lmask, %rmask
    ret <32 x i8> %or
}

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SOFTWARE.
add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
lldbCore
lldbHost
lldbSymbol
LINK_COMPONENTS
Support
)
; RUN: llc -march=hexagon -hexagon-hvx-widen=32 < %s | FileCheck %s

; Truncating a type-to-be-widenened to a legal type (v8i8).
; Check that this compiles successfully.
; CHECK-LABEL: f0:
; CHECK: dealloc_return

target triple = "hexagon"

define dllexport void @f0(i8* %a0) local_unnamed_addr #0 {
  b0:
  %v0 = load i8, i8* undef, align 1
  %v1 = zext i8 %v0 to i16
  %v2 = add i16 0, %v1
  %v3 = icmp sgt i16 %v2, 1
  %v4 = select i1 %v3, i16 %v2, i16 1
  %v5 = udiv i16 -32768, %v4
  %v6 = zext i16 %v5 to i32
  %v7 = insertelement <8 x i32> undef, i32 %v6, i32 0
  %v8 = shufflevector <8 x i32> %v7, <8 x i32> undef, <8 x i32> zeroinitialize
  %v9 = load <8 x i16>, <8 x i16>* undef, align 2
  %v10 = sext <8 x i16> %v9 to <8 x i32>
  %v11 = mul nsw <8 x i32> %v8, %v10
  %v12 = add nsw <8 x i32> %v11, <i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384>
  %v13 = lshr <8 x i32> %v12, <i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15>
  %v14 = trunc <8 x i32> %v13 to <8 x i8>
  %v15 = getelementptr inbounds i8, i8* %a0, i32 undef
  %v16 = bitcast i8* %v15 to <8 x i8>*
  store <8 x i8> %v14, <8 x i8>* %v16, align 1
ret void
}

attributes #0 = { "target-features"="+hvx,+hvx-length128b" }
; 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
%cegp22 = 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 --
check-attributes
; RUN: opt -attributor -enable-new-pm=0 -attributor-manifest-internal -attributor-max-iterations-verify -attributor-
annotate-decl-cs -attributor-max-iterations=3 -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_CGSCC_NPM,NOT_CGSCC_OPM,NOT_TUNIT_NPM,IS__TUNIT____,IS________OP
M,IS__TUNIT_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations-verify -
attributor-annotate-decl-cs -attributor-max-iterations=3 -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM,IS__TUNIT____,IS________NP
M,IS__TUNIT_NPM
; RUN: opt -attributor-cgscce -enable-new-pm=0 -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"

; 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 {
    ; IS________OPM: FunctionAttrs: argmemonly inlinehint nofree norecourse nosync nounwind uwtable willreturn
    ; IS________OPM-LABEL: define
    { {{[^@]+}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
    ; IS________OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
    [[ATTR0:#.*]]} {
    ; IS________OPM-NEXT: bb:
    ; IS________OPM-NEXT: ["TMP:%.*"] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64

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align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6:#.*]]

; IS__TUNIT_NPM-NEXT:  [[TMP0:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], 8 x i64> [[TMP0]] [[ATTR7:#.*]]
; 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: Function Attrs: argmemonly inlineinhint nofreenorecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofreenonnull writeonlyalign 2 dereferenceable(64) [[ARG:.%.*]]) [[ATTR0:#.*]] {
; 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 nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6:#.*]]
; IS__CGSCC_OPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], 8 x i64> [[TMP0]] [[ATTR7:#.*]]
; 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: Function Attrs: argmemonly inlineinhint nofreenorecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofreenonnull writeonlyalign 2 dereferenceable(64) [[ARG:.%.*]]) [[ATTR0:#.*]] {
; 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 nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6:#.*]]
; IS__CGSCC_NPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], 8 x i64> [[TMP0]] [[ATTR7:#.*]]
; 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
open source used in Cisco Telemetry Broker On Prem 1.3.1

%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 {
    .is_________omp: function attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
    .is_________omp-label: define
doubleallee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    .is_________omp-same: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[arg:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[arg1:%.*]]) [[attr1:##.*]]
    .is_________omp-next: bb:
        .is_________omp-next: [[tmp:%.*]] = load <8 x i64>, <8 x i64>* [[arg1]], align 64
        .is_________omp-next: store <8 x i64> [[tmp]], <8 x i64>* [[arg]], align 64
        .is_________omp-next: ret void
    ;
    .is_________npm: function attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
    .is_________npm-label: define
doubleallee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    .is_________npm-same: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[arg:%.*]], <8 x i64> [[tmp0:%.*]]) [[attr1:##.*]]
    .is_________npm-next: bb:
        .is_________npm-next: [[arg1_priv:%.*]] = alloca <8 x i64>, align 64
        .is_________npm-next: store <8 x i64> [[arg1_priv]], <8 x i64>* [[arg]], align 64
        .is_________npm-next: store <8 x i64> [[tmp0]], <8 x i64>* [[arg1_priv]], align 64
        .is_________npm-next: store <8 x i64> [[tmp]], <8 x i64>* [[arg]], align 64
        .is_________npm-next: ret void
    ;
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
    .is_________tunit_omp: function attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
    .is_________tunit_omp-label: define
doubleallee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    .is_________tunit_omp-same: (<8 x i64>* nocapture writeonly [[arg:%.*]]) [[attr1:##.*]]
    .is_________tunit_omp-next: bb:
; IS__CGSCC_NPM: Function Attrs: argnonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture noreturn nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]] [[ATTR1:%.*]]}

; 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* noundef align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT: ret void

@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nolalias nocapture noreturn
nonnull writeonly align 64 dereferenceable(64) [[TP1]], <8 x i64> [[TP0]] [[ATTR7]]
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void

; bb:
; 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{

; IS________OPM: Function Attrs: argnonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________OPM-LABEL: define
{[^@]+}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS________OPM-SAME: (<8 x i64>* nocapture noreturn nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture noreturn nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
[[ATTR1]]

; IS________OPM-NEXT: bb:
; IS________OPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS________OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________OPM-NEXT: ret void

; IS________NPM: Function Attrs: argnonly inlinehint norefnc unsure nosync nounwind uwtable willreturn
; IS________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 {
  ; __TUNIT_OPM: Function Attrs: argmemonly inlinehint norecursion nosync nounwind uwtable willreturn
  ; __TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
  ; __TUNIT_OPM-SAME: (<8 x i64>* noalias nocapture norefree writeonly [[ARG:*.%]]) [[ATTR1]] {
    ; __TUNIT_OPM-NEXT: bb:
    ; __TUNIT_OPM-NEXT: [[ARG1_PRIV:*.%]] = alloca <8 x i64>, align 64
    ; __TUNIT_OPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
    ; __TUNIT_OPM-NEXT: [[TMP:*.%]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
    ; __TUNIT_OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; __TUNIT_OPM-NEXT: ret void
  }

  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  ; __TUNIT_NPM: Function Attrs: argmemonly inlinehint norecursion nosync nounwind uwtable willreturn
  ; __TUNIT_NPM-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
  ; __TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture norefree writeonly [[ARG:*.%]]) [[ATTR0]] {
    ; __TUNIT_NPM-NEXT: bb:
    ; __TUNIT_NPM-NEXT: [[TMP:*.%]] = alloca <8 x i64>, align 32
    ; __TUNIT_NPM-NEXT: [[TMP2:*.%]] = alloca <8 x i64>, align 32
    ; __TUNIT_NPM-NEXT: [[TMP3:*.%]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; __TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture norefree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
    ; __TUNIT_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture norefree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* norefree noundef norefnonempty readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
    ; __TUNIT_NPM-NEXT: [[TMP0:*.%]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; __TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG]], align 2
    ; __TUNIT_NPM-NEXT: ret void
  }

  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
<8 x i64>* [[ARG]], align 2

; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture noreturn nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR0]]

; 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 noreturn nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]

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>* nocapture noreturn nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture noreturn nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]

; 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: Function Attrs: argmemonly inlinehint norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture noreturn nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR0]]

; 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 noreturn nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]

; IS__CGSCC_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture noreturn nonnull writeonly align 64 dereferenceable(64) [[TMP0]]), <8 x i64>* [[TMP]]) [[ATTR7]]

; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
define void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  ret void
}

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1) {
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) {
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1) {
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) {
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1) {
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]] [[ATTR7]])

; IS__TUNIT_OPM-NEXT:   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:   store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:   ret void

; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofrc noasync nounderstand willreturn
; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx512/legal512/prefer256_call_avx512/legal512/prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly [[ARG:%.*]]) [[ATTR1]]
; IS__TUNIT_NPM-NEXT:   bb:
; IS__TUNIT_NPM-NEXT:   [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:   [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:   [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; 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 noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
; 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: Function Attrs: argmemonly inlinehint nofrc noasync nounderstand willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512/legal512/prefer256_call_avx512/legal512/prefer512
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]]) [[ATTR1]]
; 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 nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT:   call fastcc void @callee_avx512/legal512/prefer256_call_avx512/legal512/prefer512(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; 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: Function Attrs: argmemonly inlinehint nofrc noasync nounderstand willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512/legal512/prefer256_call_avx512/legal512/prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]]) [[ATTR1]]
; IS__CGSCC_NPM-NEXT:   bb:
; IS__CGSCC_NPM-NEXT:   [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS_______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: Function Attrs: argmemonly inlinehint norefree norecurse nosync nounwind uwtable willreturn
 ; IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
 ; IS__TUNIT_OPM-SAME: (8 x i64)* norefree writeonly [[ARG:%.*]] [[ATTR2:#.*]]
 ; 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 nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
 ; IS__TUNIT_OPM-NEXT: call fastcc void
@calleee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* norefree noreturn
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], 8 x i64)* noreturn writeonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
 ; IS__TUNIT_OPM-NEXT: [[TMP4:.]] = load 8 x i64, 8 x i64* [[TMP2]], align 64
 ; IS__TUNIT_OPM-NEXT: store 8 x i64 [[TMP4]], 8 x i64* [[ARG]], align 2
 ; IS__TUNIT_OPM-NEXT: ret void
;
 ; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint norefree norecurse nosync nounwind uwtable willreturn
 ; IS__TUNIT_NPM-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
 ; IS__TUNIT_NPM-SAME: (8 x i64)* noreturn writeonly [[ARG:%.*]] [[ATTR2:#.*]]
 ; IS__TUNIT_NPM-NEXT: bb:
 ; IS__TUNIT_NPM-NEXT: [[TMP:.]] = alloca 8 x i64, align 32
 ; IS__TUNIT_NPM-NEXT: [[TMP2:.]] = alloca 8 x i64, align 32
 ; IS__TUNIT_NPM-NEXT: [[TMP3:.]] = bitcast 8 x i64* [[TMP]] to i8*
 ; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
 ; IS__TUNIT_NPM-NEXT: call fastcc void
@calleee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture noreturn
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], 8 x i64)* noalias nocapture noreturn nonnull readonly
align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
 ; 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: Function Attrs: argmemonly inlinehint norefree norecurse nosync nounwind uwtable willreturn
 ; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
 ; IS__CGSCC_OPM-SAME: (8 x i64)* noreturn writeonly align 2 dereferenceable(64) [[ARG:%.*]] [[ATTR2:#.*]]

@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundefnonnull writenonlyalign 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundefnonnull readonlyalign 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]

@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull readonlyalign 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonlyalign 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR7]]
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
}

define void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(workgroup_size %arg1, %arg2) {
  bb:
  %arg1 = load i32, i32* %arg0
  %arg2 = load i64, i64* %arg1
  store i32 %arg1, i32* %arg0
  store i64 %arg2, i64* %arg1
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg)

@call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
@call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture norefund norefund nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture norefund norefund nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
@call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture norefund norefund nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture norefund norefund nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #3 {
  ; IS_________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
  ; IS_________OPM-LABEL: define {{[^@]+}} @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
  ; IS_________OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
  [[[ARG:%.*]], <8 x i64>* nocode nocapture noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
  [[[ATTR3:#.*]]] {
    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 void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg1) #4 {
  ;
  ; IS_________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
  ; IS_________OPM-LABEL: define {{[^@]+}} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
  ; IS_________OPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
  [[[ARG1:%.*]], <8 x i64> [[TMP0:%.*]]] [[ATTR3:#.*]] {
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
  }
}
; IS__UNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__UNIT_OPM-LABEL: define {{[^@]+}} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__UNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR4:%.*]]
; IS__UNIT_OPM-NEXT: bb:
; IS__UNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__UNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__UNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__UNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__UNIT_OPM-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; 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: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__UNIT_NPM-LABEL: define {{[^@]+}} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__UNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR4:%.*]]
; 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 nofree noundef nonnull writeonly
dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__UNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__UNIT_NPM-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
; 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: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree writeonly align 2 dereferenceable(64) [[ARG:%.*]]) [[ATTR4:%.*]]
; 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 nofree noundef nonnull writeonly
dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  %tmp = load <8 x i64>, <8 x i64>* %arg
  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 {
  %tmp = load <8 x i64>, <8 x i64>* %arg
  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 {
  %tmp = load <8 x i64>, <8 x i64>* %arg
  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 {
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
; 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: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtatable willreturn
; IS__CGSCC_OPM-LABEL: define {{\[^@\]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* noalias nocapture nofree noundef align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR3:#.*]]

; IS__CGSCC_OPM-NEXT: bb:
  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* noalign nocapture nofree noundef noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
 ;
  ; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> n gobility nocapture nofree noundef readonly align 64 dereferenceable(64) [[TMP1]]) [[ATTR7]]
  ; 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: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtatable willreturn
; IS__CGSCC_NPM-LABEL: define {{\[^@\]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR3:#.*]]

; IS__CGSCC_NPM-NEXT: bb:
  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>* noalias nocapture nofree no
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; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked as 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")
  strictfp
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 util/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-prefixes=VEC256,AVX512VL256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-prefixes=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=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=SKX512

define void @zext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'zext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; AVX512VL512-LABEL: 'zext256'
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
define void @zext512() "min-legal-vector-width"="512" {
    AVX-LABEL: 'zext512'
    AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ret void
}

; AVX512VL256-LABEL: 'zext512'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL512-LABEL: 'zext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL512-LABEL: 'zext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
)

define void @sext256() "min-legal-vector-width"="256" {
 ; VEC256-LABEL: 'sext256'
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
}
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'sext512'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
%

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
}
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'trunc256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'trunc256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'trunc256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = trunc <8 x i64> undef to <8 x i32>
%B = trunc <8 x i64> undef to <8 x i16>
%C = trunc <8 x i64> undef to <8 x i8>
%D = trunc <16 x i32> undef to <16 x i16>
%E = trunc <16 x i32> undef to <16 x i8>
%F = trunc <32 x i16> undef to <32 x i8>
ret void
;

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {  
; AVX-LABEL: 'zext256_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; 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 1 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'zext256_vXii'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef ;
; AVX512VL512-LABEL: 'zext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; 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: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
:
%V2i64 = zext <2 x i1> undef to <2 x i64>
%V4i64 = zext <4 x i1> undef to <4 x i64>
%V8i64 = zext <8 x i1> undef to <8 x i64>

%V2i32 = zext <2 x i1> undef to <2 x i32>
%V4i32 = zext <4 x i1> undef to <4 x i32>
%V8i32 = zext <8 x i1> undef to <8 x i32>
%V16i32 = zext <16 x i1> undef to <16 x i32>

%V2i16 = zext <2 x i1> undef to <2 x i16>
%V4i16 = zext <4 x i1> undef to <4 x i16>
%V8i16 = zext <8 x i1> undef to <8 x i16>
%V16i16 = zext <16 x i1> undef to <16 x i16>
%V32i16 = zext <32 x i1> undef to <32 x i16>

%V2i8 = zext <2 x i1> undef to <2 x i8>
%V4i8 = zext <4 x i1> undef to <4 x i8>
%V8i8 = zext <8 x i1> undef to <8 x i8>
%V16i8 = zext <16 x i1> undef to <16 x i8>
%V32i8 = zext <32 x i1> undef to <32 x i8>
%V64i8 = zext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @sext256_vXi1() "min-legal-vector-width"="256" {
 ; AVX-LABEL: 'sext256_vXi1'
 ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i32 = sext <8 x i1> undef to <8 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 3 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i16 = sext <8 x i1> undef to <8 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 3 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I4 = sext i1 undef to i4
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i4 = sext <2 x i1> undef to <2 x i4>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i4 = sext <4 x i1> undef to <4 x i4>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i4 = sext <8 x i1> undef to <8 x i4>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I2 = sext i1 undef to i2
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i2 = sext <2 x i1> undef to <2 x i2>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i2 = sext <4 x i1> undef to <4 x i2>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i2 = sext <8 x i1> undef to <8 x i2>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I1 = sext i1 undef to i1
 ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i1 = sext <2 x i1> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL256-LABEL: 'sext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 42 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'sext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = sext <8 x i1> undef
to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'sext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i64 = sext <16 x i1> undef to <16 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>
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 i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 13 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i64>
    ret i32 undef
}
<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 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 18 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL256-LABEL: 'trunc_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64>
x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x il>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x il>
; 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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1.337 go-yaml 2.4.0

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Upstream-Name: liblz4
Upstream-Contact: Yann Collet <Cyan4973@github.com>
Source: https://github.com/lz4/lz4

Files: *
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1.343 isodate 0.6.1

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Metadata-Version: 2.1
Name: isodate
Version: 0.6.1
Summary: An ISO 8601 date/time/duration parser and formatter
Home-page: https://github.com/gweis/isodate/
Author: Gerhard Weis
Author-email: gerhard.weis@proclos.com
License: BSD
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
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Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: 3.9
Classifier: Programming Language :: Python :: 3.10
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet
This module implements ISO 8601 date, time and duration parsing. The implementation follows ISO8601:2004 standard, and implements only date/time representations mentioned in the standard. If something is not mentioned there, then it is treated as non existent, and not as an allowed option.

For instance, ISO8601:2004 never mentions 2 digit years. So, it is not intended by this module to support 2 digit years. (while it may still be valid as ISO date, because it is not explicitly forbidden.) Another example is, when no time zone information is given for a time, then it should be interpreted as local time, and not UTC.

As this module maps ISO 8601 dates/times to standard Python data types, like *date*, *time*, *datetime* and *timedelta*, it is not possible to convert all possible ISO 8601 dates/times. For instance, dates before 0001-01-01 are not allowed by the Python *date* and *datetime* classes. Additionally fractional seconds are limited to microseconds. That means if the parser finds for instance nanoseconds it will round it to microseconds.

Documentation
-------------

Currently there are four parsing methods available.
* parse_time:
  parses an ISO 8601 time string into a *time* object
* parse_date:
  parses an ISO 8601 date string into a *date* object
* parse_datetime:
parses an ISO 8601 date-time string into a *datetime* object

* parse_duration:
  parses an ISO 8601 duration string into a *timedelta* or *Duration*
  object.

* parse_tzinfo:
  parses the time zone info part of an ISO 8601 string into a
  *tzinfo* object.

As ISO 8601 allows to define durations in years and months, and *timedelta*
does not handle years and months, this module provides a *Duration* class,
which can be used almost like a *timedelta* object (with some limitations).
However, a *Duration* object can be converted into a *timedelta* object.

There are also ISO formatting methods for all supported data types. Each
*xxx_isoformat* method accepts a format parameter. The default format is
always the ISO 8601 expanded format. This is the same format used by
*datetime.isoformat*:

* time_isoformat:
  Intended to create ISO time strings with default format
  *hh:mm:ssZ*.
* date_isoformat:
  Intended to create ISO date strings with default format
  *yyyy-mm-dd*.
* datetime_isoformat:
  Intended to create ISO date-time strings with default format
  *yyyy-mm-ddThh:mm:ssZ*.
* duration_isoformat:
  Intended to create ISO duration strings with default format
  *PnnYnnMnnDTnnHnnMnnS*.
* tz_isoformat:
  Intended to create ISO time zone strings with default format
  *hh:mm*.
* strftime:
  A re-implementation mostly compatible with Python's *strftime*, but
  supports only those format strings, which can also be used for dates
  prior 1900. This method also understands how to format *datetime* and
  *Duration* instances.

Installation:
-------------

This module can easily be installed with Python standard installation methods.

Either use *python setup.py install* or in case you have *setuptools* or
*distribute* available, you can also use *easy_install*.

Limitations:
The parser accepts several date/time representation which should be invalid according to ISO 8601 standard.

1. for date and time together, this parser accepts a mixture of basic and extended format.
   e.g. the date could be in basic format, while the time is accepted in extended format.
   It also allows short dates and times in date-time strings.
2. For incomplete dates, the first day is chosen. e.g. 19th century results in a date of 1901-01-01.
3. negative *Duration* and *timedelta* value are not fully supported yet.

Further information:
---------------------

The doc strings and unit tests should provide rather detailed information about the methods and their limitations.

The source release provides a *setup.py* script, which can be used to run the unit tests included.

Source code is available at `http://github.com/gweis/isodate`.

CHANGES
=======

0.6.1 (2021-12-13)
------------------

- support python 3.10 ()
- last version to support py 2.7

0.6.0 (2017-10-13)
------------------

- support incomplete month date (Fabien Loffredo)
- rely on duck typing when doing duration maths
- support ‘:’ as separator in fractional time zones (usrenmae)

0.5.4 (2015-08-06)
------------------

- Fix parsing of Periods (Fabien Bochu)
- Make Duration objects hashable (Geoffrey Fairchild)
- Add multiplication to duration (Reinoud Elhorst)
0.5.1 (2014-11-07)
-----------------
- fixed pickling of Duration objects
- raise ISO8601Error when there is no 'T' separator in datetime strings (Adrian Coveney)

0.5.0 (2014-02-23)
-----------------
- ISO8601Error are subclasses of ValueError now (Michael Hrivnak)
- improve compatibility across various python variants and versions
- raise exceptions when using fractional years and months in date maths with durations
- renamed method todatetime on Duration objects to totimedelta

0.4.9 (2012-10-30)
-----------------
- support pickling FixedOffset instances
- make sure parsed fractional seconds are in microseconds
- add leading zeros when formatting microseconds (Jarom Loveridge)

0.4.8 (2012-05-04)
-----------------
- fixed incompatibility of unitests with python 2.5 and 2.6 (runs fine on 2.7 and 3.2)

0.4.7 (2012-01-26)
-----------------
- fixed tzinfo formatting (never pass None into tzinfo.utcoffset())

0.4.6 (2012-01-06)
-----------------
- added Python 3 compatibility via 2to3

0.4.5 (2012-01-06)
-----------------
- made setuptools dependency optional
0.4.4 (2011-04-16)
-------------

- Fixed formatting of microseconds for datetime objects

0.4.3 (2010-10-29)
-------------

- Fixed problem with %P formatting and fractions (supplied by David Brooks)

0.4.2 (2010-10-28)
-------------

- Implemented unary - for Duration (supplied by David Brooks)
- Output fractional seconds with '%P' format. (partly supplied by David Brooks)

0.4.1 (2010-10-13)
-------------

- fixed bug in comparison between timedelta and Duration.
- fixed precision problem with microseconds (reported by Tommi Virtanen)

0.4.0 (2009-02-09)
-------------

- added method to parse ISO 8601 time zone strings
- added methods to create ISO 8601 conforming strings

0.3.0 (2009-1-05)
-------------

- Initial release

TODOs
=====

This to do list contains some thoughts and ideas about missing features, and parts to think about, whether to implement them or not. This list is probably not complete.

Missing features:
-----------------

* time formatting does not allow to create fractional representations.
* parser for ISO intervals.
* currently microseconds are always padded to a length of 6 characters. trailing 0s should be optional.
Documentation:

* parse_datetime:
  - complete documentation to show what this function allows, but ISO forbids.
    and vice versa.
  - support other separators between date and time than 'T'

* parse_date:
  - yeardigits should be always greater than 4
  - dates before 0001-01-01 are not supported

* parse_duration:
  - alternative formats are not fully supported due to parse_date restrictions
  - standard duration format is fully supported but not very restrictive.

* Duration:
  - support fractional years and month in calculations
  - implement w3c order relation? ('<http://www.w3.org/TR/xmlschema-2/#duration-order>' _)
  - refactor to have duration mathematics only at one place.
  - localize __str__ method (does timedelta do this?)
  - when is a Duration negative?
  - normalize Durations. months [00-12] and years [-inf,+inf]

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* /opt/cola/permits/1241800647_1640114122.41/0/isodate-0-6-1-tar-gz/isodate-0.6.1/src/isodate/tests/test_duration.py
1.344 semver 5.7.1

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1.345 gopkg.in-asn1-ber 1.0.0-20181015200546-f715ec2f112d

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## uuid.pod: Perl Binding (Perl/POD part)

=pod

=head1 NAME

OSSP:uuid - B<OSSP uuid> Perl Binding
DESCRIPTION

B<OSSP uuid> is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and RFC 4122 compliant I<Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

B<OSSP::uuid> is the Perl binding to the B<OSSP uuid> API. Three variants are provided:

TIE-STYLE API

The TIE-style API is a functionality-reduced wrapper around the OO-style API and intended for very high-level convenience programming:

```
use OSSP::uuid;

tie my $uuid, 'OSSP::uuid::tie', $mode, ...;
$uuid = [ $mode, ... ];
print "UUID=$uuid\n";
untie $uuid;
```

OO-STYLE API

The OO-style API is a wrapper around the C-style API and intended for high-level regular programming.

```
use OSSP::uuid;

my $uuid = new OSSP::uuid;
$uuid->load($name);
```
Additionally, the strings "v1", "v3", "v4", "v5" and "mc" can be used in $mode and the strings "bin", "str", and "txt" can be used for $fmt.

=head2 C-STYLE API

The C-style API is a direct mapping of the B<OSSP uuid> ISO-C API to Perl and is intended for low-level programming. See uuid(3) for a description of the functions and their expected arguments.

=over 4

=item C<use OSSP::uuid qw(:all)>;

=item C<my $uuid; $rc = >B<uuid_create>$C<($uuid)>;

=item C<$rc = >B<uuid_load>$C<($uuid, $name)>;

=item C<$rc = >B<uuid_make>$C<($uuid, $mode, ...)>

=item C<$rc = >B<uuid_isnil>$C<($uuid, $result)>;

=item C<$rc = >B<uuid_compare>$C<($uuid, $uuid2, $result)>;

=item C<$rc = >B<uuid_import>$C<($uuid, $fmt, $data_ptr, $data_len)>;

=item C<$rc = >B<uuid_export>$C<($uuid, $fmt, $data_ptr, $data_len)>;

=item C<$str = >B<uuid_error>$C<($rc)>;

=back
Additionally, the following constants are exported for use in $rc, $mode, $fmt and $ver:

C<UUID_VERSION>,
C<UUID_LEN_BIN>,
C<UUID_LEN_STR>,
C<UUID_RC_OK>,
C<UUID_RC_ARG>,
C<UUID_RC_MEM>,
C<UUID_RC_SYS>,
C<UUID_RC_INT>,
C<UUID_RC_IMP>,
C<UUID_MAKE_V1>,
C<UUID_MAKE_V3>,
C<UUID_MAKE_V4>,
C<UUID_MAKE_V5>,
C<UUID_MAKE_MC>,
C<UUID_FMT_BIN>,
C<UUID_FMT_STR>,
C<UUID_FMT_SIV>,
C<UUID_FMT_TXT>.

=head1 EXAMPLES

The following two examples create the version 3 UUID C<02d9e6d5-9467-382e-8f9b-9300a64ac3cd>, both via the OO-style and the C-style API. Error handling is omitted here for easier reading, but has to be added for production-quality code.

#   TIE-style API (very high-level)
use OSSP::uuid;
tie my $uuid, 'OSSP::uuid::tie';
$uuid = [ "v1" ];
print "UUIDs: $uuid, $uuid, $uuid\n";
$uuid = [ "v3", "ns:URL", "http://www.ossp.org/" ];
print "UUIDs: $uuid, $uuid, $uuid\n";
untie $uuid;

#   OO-style API (high-level)
use OSSP::uuid;
my $uuid = new OSSP::uuid;
my $uuid_ns = new OSSP::uuid;
$uuid_ns->load("ns:URL");
$uuid->make("v3", $uuid_ns, "http://www.ossp.org/");
undef $uuid_ns;
my $str = $uuid->export("str");
undef $uuid;
print "$str\n";

# C-style API (low-level)
use OSSP::uuid qw(:all);
my $uid;  uuid_create($uid);
my $uuid_ns; uuid_create($uuid_ns);
uuid_load($uuid_ns, "ns:URL");
uuid_make($uuid, UUID_MAKE_V3, $uuid_ns, "http://www.ossp.org/");
uuid_destroy($uuid_ns);
my $str; uuid_export($uid, UUID_FMT_STR, $str, undef);
uuid_destroy($uid);
print "$str\n";

=head1 SEE ALSO

uuid(1), uuid-config(1), uuid(3).

=head1 HISTORY

The Perl binding B<OSSP::uuid> to B<OSSP uuid> was implemented in November 2004 by Ralf S. Engelschall E<lt>rse@engelschall.comE<gt>.

=cut

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** uuid_ac.c: auto-configuration
*/

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##
## uuid++.pod: manual page for C++ API
##
=pod
NAME

OSSP uuid - Universally Unique Identifier (C++ API)

VERSION

OSSP uuid UUID_VERSION_STR

DESCRIPTION

uuid++ is the ISO-C++ language binding of the OSSP uuid C API. It provides a thin ISO-C++ class uuid wrapping the ISO-C API type uuid_t.

APPLICATION PROGRAMMING INTERFACE

The ISO-C++ Application Programming Interface (API) of uuid++ consists of the following components:

CONSTANTS

The constants are the same to those provided by the ISO-C API. See uuid(3) for details.

CLASSES

The following classes are provided:

over 4

item uuid

This is the class corresponding to the C API type uuid_t. It is the main object.

item uuid_error_t

This is the class corresponding to the C API function uuid_error_t. It is the object thrown as an exception in case of any errors.

METHODS

The following methods are provided:

over 4
=item B<uuid>::();

The standard constructor.

=item B<uuid>::(const uuid &_obj);

The copy constructor for B<uuid> class.

=item B<uuid>::(const uuid_t *_obj);

The import constructor for C API objects.

=item B<uuid>::(const void * _bin);

The import constructor for binary representation.

=item B<uuid>::(const char * _str);

The import constructor for string representation.

=item ~B<uuid>::();

The standard destructor for B<uuid> class.

=item uuid &B<uuid>::operator=(const uuid & _obj);

The assignment operator corresponding to the copy constructor.

=item uuid &B<uuid>::operator=(const uuid_t * _obj);

The assignment operator corresponding to the import constructor for C API objects.

=item uuid &B<uuid>::operator=(const void * _bin);

The assignment operator corresponding to the import constructor for binary representation.

=item uuid &B<uuid>::operator=(const char * _str);

The assignment operator corresponding to the import constructor for string and single integer value representation.

=item uuid B<uuid>::clone()(void);

Regular method corresponding to the C API function B<uuid_clone>.

=item void B<uuid>::load(const char * _name);

Regular method corresponding to the C API function B<uuid_load>.
=item void B<uuid::make>(unsigned int _mode, ...);
Regular method corresponding to the C API function B<uuid_make>.

=item int B<uuid::isnil>(void);
Regular method corresponding to the C API function B<uuid_isnil>.

=item int B<uuid::compare>(const uuid &_obj);
Regular method corresponding to the C API function B<uuid_compare>.

=item int B<uuid::operator==(const uuid &_obj);
The comparison operator corresponding to B<uuid_compare> usage for equality.

=item int B<uuid::operator!=(const uuid &_obj);
The comparison operator corresponding to B<uuid_compare> usage for inequality.

=item int B<uuid::operator<lt>(const uuid &_obj);
The comparison operator corresponding to B<uuid_compare> usage for less-than.

=item int B<uuid::operator<lt>=>(const uuid &_obj);
The comparison operator corresponding to B<uuid_compare> usage for less-than-or-equal.

=item int B<uuid::operator<gt>>(const uuid &_obj);
The comparison operator corresponding to B<uuid_compare> usage for greater-than.

=item int B<uuid::operator<gt>=>(const uuid &_obj);
The comparison operator corresponding to B<uuid_compare> usage for greater-than-or-equal.

=item void B<uuid::import>(const void * _bin);
Regular method corresponding to the C API function B<uuid_import> for binary representation usage.

=item void B<uuid::import>(const char * _str);
Regular method corresponding to the C API function B<uuid_import> for string representation usage.

=item void *B<uuid::binary>(void);
Regular method corresponding to the C API function B<uuid_export> for binary representation usage.
Regular method corresponding to the C API function `uuid_export` for string representation usage.

Regular method corresponding to the C API function `uuid_export` for single integer value representation usage.

Regular method corresponding to the C API function `uuid_export` for textual summary representation usage.

Regular method corresponding to the C API function `uuid_version`.

The standard constructor for `uuid_error_t` class.

The standard constructor for `uuid_error_t` class with return code initialization.

The standard destructor for `uuid_error_t` class.

Regular method for setting the return code.

Regular method for fetching the return code.

Regular method for fetching the string corresponding to the current return code.

The following shows an example usage of the C++ API. Exception handling is omitted for code simplification and has to be re-added for production code.
/* generate a DCE 1.1 v1 UUID from system environment */
char *uuid_v1(void)
{
    uuid id;
    char *str;

    id.make(UUID_MAKE_V1);
    str = id.string();
    return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid id;
    uuid id_ns;
    char *str;

    id_ns.load("ns:URL");
    id.make(UUID_MAKE_V3, &id_ns, url);
    str = id.string();
    return str;
}

=head1 SEE ALSO

uuid(3).

=cut

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**
** uuid.h: library API definition
*/

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** uuid_mac.h: Media Access Control (MAC) resolver API definition
*/
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/*
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 **
 ** ui64.c: implementation of 64-bit unsigned integer arithmetic
 */

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** uuid_time.h: Time Management API
*/

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**
** uuid_str.c: string formatting functions
*/

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** uuid.xs: Perl Binding (Perl/XS part)
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uuid_dce.c: DCE 1.1 compatibility API implementation

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--
-- uuid.sql: PostgreSQL Binding (SQL part)
--

--
-- prolog
--

SET search_path TO public;
SET client_min_messages TO warning;

DROP FUNCTION uuid_in(CSTRING)  CASCADE;
DROP FUNCTION uuid_out(uuid) CASCADE;
DROP FUNCTION uuid_recv(INTERNAL) CASCADE;
DROP FUNCTION uuid_send(uuid) CASCADE;
DROP TYPE uuid CASCADE;
DROP CAST (CSTRING AS uuid) CASCADE;
DROP CAST (uuid AS CSTRING) CASCADE;
DROP FUNCTION uuid(CSTRING) CASCADE;
DROP FUNCTION uuid(INTEGER) CASCADE;
DROP FUNCTION uuid(INTEGER, CSTRING, CSTRING) CASCADE;
DROP FUNCTION uuid_eq(uuid) CASCADE;
DROP FUNCTION uuid_ne(uuid) CASCADE;
DROP FUNCTION uuid_lt(uuid, uuid) CASCADE;
DROP FUNCTION uuid_gt(uuid, uuid) CASCADE;
DROP FUNCTION uuid_le(uuid, uuid) CASCADE;
DROP FUNCTION uuid_ge(uuid, uuid) CASCADE;
DROP OPERATOR =(uuid,uuid) CASCADE;
DROP OPERATOR <>(uuid,uuid) CASCADE;
DROP OPERATOR <(uuid,uuid) CASCADE;
DROP OPERATOR >(uuid,uuid) CASCADE;
DROP OPERATOR <=(uuid,uuid) CASCADE;
DROP OPERATOR >==(uuid,uuid) CASCADE;
DROP FUNCTION uuid_hash(uuid) CASCADE;
DROP FUNCTION uuid_cmp(uuid, uuid) CASCADE;
DROP OPERATOR CLASS uuid_ops USING hash CASCADE;
DROP OPERATOR CLASS uuid_ops USING btree CASCADE;

BEGIN;

--
-- the UUID data type
--

CREATE FUNCTION uuid_in(CSTRING) RETURNS uuid STRICT LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION uuid_out(uuid) RETURNS CSTRING STRICT LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_out';

CREATE FUNCTION uuid_recv(INTERNAL) RETURNS uuid
STRICT LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_recv';
CREATE FUNCTION uuid_send(uuid) RETURNS BYTEA
STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_send';

CREATE TYPE uuid (
    INPUT   = uuid_in,   -- for SQL input
    OUTPUT  = uuid_out,  -- for SQL output
    RECEIVE = uuid_recv, -- for DB input
    SEND    = uuid_send, -- for DB output
    DEFAULT = 'uuid(1)',
    INTERNALLENGTH = 16,
    ALIGNMENT = char
);

COMMENT ON TYPE uuid
   IS 'UUID type';

-- CREATE CAST (CSTRING AS uuid)
--     WITH FUNCTION uuid_in(CSTRING) AS ASSIGNMENT;
--
-- CREATE CAST (uuid AS CSTRING)
--     WITH FUNCTION uuid_out(uuid)   AS ASSIGNMENT;

--
-- the UUID constructor function
--
CREATE FUNCTION uuid(CSTRING) RETURNS uuid
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION uuid(INTEGER) RETURNS uuid
VOLATILE CALLED ON NULL INPUT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

CREATE FUNCTION uuid(INTEGER, CSTRING, CSTRING) RETURNS uuid
VOLATILE CALLED ON NULL INPUT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

--
-- the UUID operators
--
CREATE FUNCTION
  uuid_eq(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_eq';

CREATE FUNCTION
  uuid_ne(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ne';

CREATE FUNCTION
  uuid_lt(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_lt';

CREATE FUNCTION
  uuid_gt(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_gt';

CREATE FUNCTION
  uuid_le(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_le';

CREATE FUNCTION
  uuid_ge(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ge';

CREATE OPERATOR = (  
  leftrarg = uuid,
  rightarg = uuid,
  negator = <>,
  procedure = uuid_eq
);

CREATE OPERATOR <> (  
  leftrarg = uuid,
  rightarg = uuid,
  negator = ==,
  procedure = uuid_ne
);

CREATE OPERATOR < (  
  leftrarg = uuid,
  rightarg = uuid,
CREATE OPERATOR > (  
  leftarg = uuid,  
  rightarg = uuid,  
  commutator = <,  
  negator = <=,  
  procedure = uuid_gt  
);

CREATE OPERATOR <= (  
  leftarg = uuid,  
  rightarg = uuid,  
  commutator = >=,  
  negator = >,  
  procedure = uuid_le  
);

CREATE OPERATOR >= (  
  leftarg = uuid,  
  rightarg = uuid,  
  commutator = <=,  
  negator = <,  
  procedure = uuid_ge  
);

--  the UUID support for indexing  
--

CREATE FUNCTION  
  uuid_hash(uuid) RETURNS INTEGER  
  IMMUTABLE STRICT  
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_hash';

CREATE FUNCTION  
  uuid_cmp(uuid, uuid) RETURNS INTEGER  
  IMMUTABLE STRICT  
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_cmp';

CREATE OPERATOR CLASS uuid_ops  
  DEFAULT FOR TYPE uuid USING hash AS  
  OPERATOR 1 =, -- 1: equal  
  FUNCTION 1 uuid_hash(uuid);
CREATE OPERATOR CLASS uuid_ops
DEFAULT FOR TYPE uuid USING btree AS
OPERATOR 1 <, -- 1: less than
OPERATOR 2 <=, -- 2: less than or equal
OPERATOR 3 =, -- 3: equal
OPERATOR 4 >=, -- 4: greater than or equal
OPERATOR 5 >, -- 5: greater than
FUNCTION 1 uuid_cmp(uuid, uuid);

--
--  epilog
--

COMMIT;

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* /opt/cola/permit/1129505846_1612286528.98/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/pgsql/uuid.sql.in
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** u128.h: API declaration
*/
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 **
 ** uuid_mac.c: Media Access Control (MAC) resolver implementation
 */

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**

** uuid.c: library API implementation

*/

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** uuid_sha1.c: SHA-1 API implementation
*/

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**
** uuid_time.c: Time Management
*/

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uuid_sha1.h: SHA-1 API definition

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** uuid++.cc: library C++ API implementation
*/

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** uuid.c: PHP/Zend API (language: C)
*/

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uuid_bm.c: bitmask API implementation

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B<OSSP uuid> - B<Universally Unique Identifier>

OSSP uuid UUID_VERSION_STR

B<OSSP uuid> is an ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant I<Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the ISO-C application programming interface (API) of B<OSSP uuid>.

UUID Binary Representation

According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is a 128 bit number defined out of 7 fields, each field a multiple of an octet in size and stored in network byte order:

```
[4]
version
--->| |--<-
| | | | [16]
```
An example of a UUID binary representation is the octet stream C<0xF80x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>. The binary representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_BIN>.

=head2 UUID ASCII String Representation

According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is represented as an ASCII string consisting of 8 hexadecimal digits followed by a hyphen, then three groups of 4 hexadecimal digits each followed by a hyphen, then 12 hexadecimal digits. Formally, the string representation is defined by the following grammar:

```plaintext
uuid = <time_low> "-" <time_mid> "-"
```

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<time_high_and_version> "."  
<clock_seq_high_and_reserved>  
<clock_seq_low> "."  

<node>  

\[
\begin{align*}
\text{time\_low} &= 4^*\text{hex\_octet} \\
\text{time\_mid} &= 2^*\text{hex\_octet} \\
\text{time\_high\_and\_version} &= 2^*\text{hex\_octet} \\
\text{clock\_seq\_high\_and\_reserved} &= \langle\text{hex\_octet}\rangle \\
\text{clock\_seq\_low} &= \langle\text{hex\_octet}\rangle \\
\text{node} &= 6^*\text{hex\_octet} \\
\text{hex\_octet} &= \langle\text{hex\_digit}\rangle \langle\text{hex\_digit}\rangle \\
\text{hex\_digit} &= "0"|"1"|"2"|"3"|"4"|"5"|"6"|"7"|"8"|"9" |"a"|"b"|"c"|"d"|"e"|"f" |"A"|"B"|"C"|"D"|"E"|"F"
\end{align*}
\]

An example of a UUID string representation is the ASCII string "C<81d4fae-7dec-11d0-a765-00a0c91e6bf6>". The string representation format is exactly what the B<OSSP uuid> API functions B<uuid\_import>() and B<uuid\_export>() deal with under C<UUID\_FMT\_STR>.

Notice: a corresponding URL can be generated out of a ASCII string representation of an UUID by prefixing with "C<urn:uuid:" as in "C<urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

=head2 UUID Single Integer Value Representation

According to the ISO/IEC 11578:1996 and ITU-T Rec. X.667 standards, a DCE 1.1 variant UUID can be also represented as a single integer value consisting of a decimal number with up to 39 digits.

An example of a UUID single integer value representation is the decimal number "C<329800735698586629295641978511506172918>". The string representation format is exactly what the B<OSSP uuid> API functions B<uuid\_import>() and B<uuid\_export>() deal with under C<UUID\_FMT\_SIV>.

Notice: a corresponding ISO OID can be generated under the "{joint-iso-itu-t(2) uuid(25)}" arc out of a single integer value representation of a UUID by prefixing with "C<2.25.". An example OID is "C<2.25.329800735698586629295641978511506172918>". Additionally, an URL can be generated by further prefixing with "C<urn:oid:" as in "C<urn:oid:2.25.329800735698586629295641978511506172918>".

=head2 UUID Variants and Versions

A UUID has a variant and version. The variant defines the layout of the UUID. The version defines the content of the UUID. The UUID variant supported in B<OSSP uuid> is the DCE 1.1 variant only. The DCE 1.1 UUID variant versions supported in B<OSSP uuid> are:
Version 1 UUIDs are guaranteed to be unique through combinations of hardware addresses, time stamps and random seeds. There is a reference in the UUID to the hardware (MAC) address of the first network interface card (NIC) on the host which generated the UUID -- this reference is intended to ensure the UUID will be unique in space as the MAC address of every network card is assigned by a single global authority (IEEE) and is guaranteed to be unique. The next component in a UUID is a timestamp which, as clock always (should) move forward, will be unique in time. Just in case some part of the above goes wrong (the hardware address cannot be determined or the clock moved steps backward), there is a random clock sequence component placed into the UUID as a “catch-all” for uniqueness.

Version 3 and version 5 UUIDs are guaranteed to be inherently globally
Version 4 UUIDs are not guaranteed to be globally unique, because they are generated out of locally gathered pseudo-random numbers only. Nevertheless there is still a high likelihood of uniqueness over space and time and that they are computationally difficult to guess.

=head2 Nil UUID

There is a special Nil UUID consisting of all octets set to zero in the binary representation. It can be used as a special UUID value which does not conflict with real UUIDs.

=head1 APPLICATION PROGRAMMING INTERFACE

The ISO-C Application Programming Interface (API) of B OSSP uuid consists of the following components.

=head2 CONSTANTS

The following constants are provided:

=over 4

=item B<UUID_VERSION>

The hexadecimal encoded B OSSP uuid version. This allows compile-time checking of the B OSSP uuid version. For run-time checking use B<uuid_version>() instead.

The hexadecimal encoding for a version "$I<v>.$I<r>.$I<t>.$I<l>" is calculated with the B<GNU shtool> B<version> command and is (in Perl-style for concise description) "sprintf('0x%x%02x%d%02x', $I<v>, $I<r>, {qw(s 9 . 2 b 1 a 0)}->[{$I<t>}], ($I<t> eq 's' ? 99 : $I<l>))", i.e., the version 0.9.6 is encoded as "0x009206".

=item B<UUID_LEN_BIN>, B<UUID_LEN_STR>, B<UUID_LEN_SIV>

The number of octets of the UUID binary and string representations. Notice that the lengths of the string representation (B<UUID_LEN_STR>) and the lengths of the single integer value representation (B<UUID_LEN_SIV>) does not include the necessary C<NUL> termination character.

=item B<UUID_MAKE_V1>, B<UUID_MAKE_V3>, B<UUID_MAKE_V4>, B<UUID_MAKE_V5>, B<UUID_MAKE_MC>
The I<mode> bits for use with B<uuid_make>() specify which UUID version to generate. The B<UUID_MAKE_V>I<N> forces the use of a random multi-cast MAC address instead of the real physical MAC address in version 1 UUIDs.

=item B<UUID_RC_OK>, B<UUID_RC_ARG>, B<UUID_RC_MEM>, B<UUID_RC_SYS>, B<UUID_RC_INT>, B<UUID_RC_IMP>

The possible numerical return-codes of API functions. The C<UUID_RC_OK> indicates success, the others indicate errors. Use B<uuid_error>() to translate them into string versions.

=item B<UUID_FMT_BIN>, B<UUID_FMT_STR>, B<UUID_FMT_SIV>, B<UUID_FMT_TXT>

The I<fmt> formats for use with B<uuid_import>() and B<uuid_export>(). The B<UUID_FMT_BIN> indicates the UUID binary representation (of length B<UUID_LEN_BIN>), the B<UUID_FMT_STR> indicates the UUID string representation (of length B<UUID_LEN_STR>), the B<UUID_FMT_SIV> indicates the UUID single integer value representation (of maximum length B<UUID_LEN_SIV>) and the B<UUID_FMT_TXT> indicates the textual description (of arbitrary length) of a UUID.

=back

=head2 FUNCTIONS

The following functions are provided:

=over 4

=item uuid_rc_t B<uuid_create>(uuid_t **I<uuid>);

Create a new UUID object and store a pointer to it in C<*I<uuid>.
A UUID object consists of an internal representation of a UUID, the internal PRNG and MD5 generator contexts, and cached MAC address and timestamp information. The initial UUID is the I<Nil> UUID.

=item uuid_rc_t B<uuid_destroy>(uuid_t *I<uuid>);

Destroy UUID object I<uuid>.

=item uuid_rc_t B<uuid_clone>(const uuid_t *I<uuid>, uuid_t **I<uuid_clone>);

Clone UUID object I<uuid> and store new UUID object in I<uuid_clone>.

=item uuid_rc_t B<uuid_isnil>(const uuid_t *I<uuid>, int *I<result>);

Checks whether the UUID in I<uuid> is the I<Nil> UUID.
If this is the case, it returns `true` in `result`. Else it returns `false` in `result`.

```c
=item uuid_rc_t B<uuid_compare>(const uuid_t *I<uuid>, const uuid_t *I<uuid2>, int *I<result>);
```

Compares the order of the two UUIDs in `uuid1` and `uuid2` and returns the result in `result`: `-1` if `uuid1` is smaller than `uuid2`, `0` if `uuid1` is equal to `uuid2` and `+1` if `uuid1` is greater than `uuid2`.

```c
=item uuid_rc_t B<uuid_import>(uuid_t *I<uuid>, uuid_fmt_t I<fmt>, const void *I<data_ptr>, size_t I<data_len>);
```

Imports a UUID `uuid` from an external representation of format `fmt`. The data is read from the buffer at `data_ptr` which contains at least `data_len` bytes.

The format of the external representation is specified by `fmt` and the minimum expected length in `data_len` depends on it. Valid values for `fmt` are `UUID_FMT_BIN`, `UUID_FMT_STR` and `UUID_FMT_SIV`.

```c
=item uuid_rc_t B<uuid_export>(const uuid_t *I<uuid>, uuid_fmt_t I<fmt>, void *I<data_ptr>, size_t *I<data_len>);
```

Exports a UUID `uuid` into an external representation of format `fmt`. Valid values for `fmt` are `UUID_FMT_BIN`, `UUID_FMT_STR`, `UUID_FMT_SIV` and `UUID_FMT_TXT`.

The data is written to the buffer whose location is obtained by dereferencing `data_ptr` after a "cast" to the appropriate pointer-to-pointer type. Hence the generic pointer argument `data_ptr` is expected to be a pointer to a "pointer of a particular type", i.e., it has to be of type "unsigned char ***" for `UUID_FMT_BIN` and "char ***" for `UUID_FMT_STR`, `UUID_FMT_SIV` and `UUID_FMT_TXT`.

The buffer has to be room for at least `data_len` bytes. If the value of the pointer after "casting" and dereferencing `data_ptr` is `NULL`, `data_len` is ignored as input and a new buffer is allocated and returned in the pointer after "casting" and dereferencing `data_ptr` (the caller has to free it later on).

If `data_len` is not `NULL`, the number of available bytes in the buffer has to be provided in `data_len` and the number of actually written bytes are returned in `data_len` again. The minimum required buffer length depends on the external representation as specified by `fmt` and is at least `UUID_LEN_BIN` for `UUID_FMT_BIN`, `UUID_LEN_STR` for `UUID_FMT_STR` and `UUID_LEN_SIV` for `UUID_FMT_SIV`. For `UUID_FMT_TXT` a buffer of unspecified length is
required and hence it is recommended to allow B< OSSP uuid> to allocate the buffer as necessary.

=item uuid_rc_t B<uuid_load>(uuid_t *I<uuid>, const char *I<name>);

Loads a pre-defined UUID value into the UUID object I<uuid>. The following I<name> arguments are currently known:

=over 4

=item I<name>      I<UUID>

=item nil       00000000-0000-0000-0000-000000000000

=item ns:DNS       6ba7b810-9dad-11d1-80b4-00c04fd430c8

=item ns:URL       6ba7b811-9dad-11d1-80b4-00c04fd430c8

=item ns:OID       6ba7b812-9dad-11d1-80b4-00c04fd430c8

=item ns:X500       6ba7b814-9dad-11d1-80b4-00c04fd430c8

=back

The "C<ns:>I<XXX>" are names of pre-defined name-space UUIDs for use in the generation of DCE 1.1 version 3 and version 5 UUIDs.

=item uuid_rc_t B<uuid_make>(uuid_t *I<uuid>, unsigned int I<mode>, ...);

Generates a new UUID in I<uuid> according to I<mode> and optional arguments (dependent on I<mode>).

If I<mode> contains the C<UUID_MAKE_V1> bit, a DCE 1.1 variant UUID of version 1 is generated. Then optionally the bit C<UUID_MAKE_MC> forces the use of random multi-cast MAC address instead of the real physical MAC address (the default). The UUID is generated out of the 60-bit current system time, a 12-bit clock sequence and the 48-bit MAC address.

If I<mode> contains the C< UUID_MAKE_V3> or C< UUID_MAKE_V5> bit, a DCE 1.1 variant UUID of version 3 or 5 is generated and two additional arguments are expected: first, a namespace UUID object (C<uuid_t *>). Second, a name string of arbitrary length (C<const char *>). The UUID is generated out of the 128-bit MD5 or 160-bit SHA-1 from the concatenated octet stream of namespace UUID and name string.

If I<mode> contains the C< UUID_MAKE_V4> bit, a DCE 1.1 variant UUID of version 4 is generated. The UUID is generated out of 128-bit random data.
Returns a constant string representation corresponding to the return-code I<rc> for use in displaying B<OSSP uuid> errors.

Returns the hexadecimal encoded B<OSSP uuid> version as compiled into the library object files. This allows run-time checking of the B<OSSP uuid> version. For compile-time checking use C<UUID_VERSION> instead.

**EXAMPLE**

The following shows an example usage of the API. Error handling is omitted for code simplification and has to be re-added for production code.

```c
/* generate a DCE 1.1 v1 UUID from system environment */
char *uuid_v1(void)
{
    uuid_t *uuid;
    char *str;

    uuid_create(&uuid);
    uuid_make(uuid, UUID_MAKE_V1);
    str = NULL;
    uuid_export(uuid, UUID_FMT_STR, &str, NULL);
    uuid_destroy(uuid);
    return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid_t *uuid;
    uuid_t *uuid_ns;
    char *str;

    uuid_create(&uuid);
    uuid_create(&uuid_ns);
    uuid_load(uuid_ns, "ns:URL");
    uuid_make(uuid, UUID_MAKE_V3, uuid_ns, url);
    str = NULL;
    uuid_export(uuid, UUID_FMT_STR, &str, NULL);
    uuid_destroy(uuid_ns);
```
uuid_destroy(uuid);
return str;
}

=head1 SEE ALSO

The following are references to B<UUID> documentation and specifications:

=over 4

=item

B<A Universally Unique IDentifier (UUID) URN Namespace>,
P. Leach, M. Mealling, R. Salz,
IETF RFC-4122,
July 2005, 32 pages,
http://www.ietf.org/rfc/rfc4122.txt

=item

Information Technology -- Open Systems Interconnection (OSI),
B<Procedures for the operation of OSI Registration Authorities:
Generation and Registration of Universally Unique Identifiers (UUIDs)
and their Use as ASN.1 Object Identifier Components>,
December 2004, 25 pages,

=item

B<DCE 1.1: Remote Procedure Call>,
appendix B<Universally Unique Identifier>,
Open Group Technical Standard
Document Number C706, August 1997, 737 pages,
 supersedes C309 DCE: Remote Procedure Call 8/1994,
which was basis for ISO/IEC 11578:1996 specification),
http://www.opengroup.org/publications/catalog/c706.htm

=item

Information technology -- Open Systems Interconnection (OSI),
B<Remote Procedure Call (RPC)>,
ISO/IEC 11578:1996,
August 2001, 570 pages. (CHF 340.00),
http://www.iso.chcate/d2229.html

=item

=item

B<DCE 1.1 compliant UUID functions>, FreeBSD manual pages uuid(3) and uuidgen(2), http://www.freebsd.org/cgi/man.cgi?query=uuid&manpath=FreeBSD+6.0-RELEASE

=back

=head1 HISTORY

B<OSSP uuid> was implemented in January 2004 by Ralf S. Engelschall <rse@engelschall.com>. It was prompted by the use of UUIDs in the B<OSSP as> and B<OpenPKG> projects. It is a clean room implementation intended to be strictly standards compliant and maximum portable.

=head1 SEE ALSO

uuid(1), uuid-config(1), OSSP::uuid(3).

=cut

Found in path(s):
* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid.pod
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**
** uuid++.hh: library C++ API definition
*/

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** uuid_prng.h: PRNG API definition
*/

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 **
 ** ui64.h: API declaration
 */

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## of UUIDs which can found at http://www.ossp.org/pkg/lib/uuid/
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## uuid_cli.pod: manual page

=pod

=head1 NAME

B<OSSP uuid> - B<Universally Unique Identifier Command-Line Tool>

=head1 VERSION

OSSP uuid UUID_VERSION_STR

=head1 SYNOPSIS

B<uuid>
  [B<-v> I<version>]
  [B<-m>]
  [B<-n> I<count>]
  [B<-l>]
  [B<-F> I<format>]
  [B<-o> I<filename>]
  I<namespace> I<name>

B<uuid>
  B<-d>
  [B<-r>]
  [B<-o> I<filename>]
I<uuid>

=head1 DESCRIPTION

B<OSSP uuid> is a ISO-C:1999 application programming interface (API) and
corresponding command line interface (CLI) for the generation of DCE
1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant I<Universally Unique
Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the command line interface (CLI) of B OSSP uuid>. For a detailed description of UUIDs see the documentation of the application programming interface (API) in uuid(3).

=head1 OPTIONS

=over 3

=item B<-v> I<version>

Sets the version of the generated DCE 1.1 variant UUID. Supported are I<version> "C<1>", "C<3>", "C<4>" and "C<5>". The default is "C<1>".

For version 3 and version 5 UUIDs the additional command line arguments I<namespace> and I<name> have to be given. The I<namespace> is either a UUID in string representation or an identifier for internally pre-defined namespace UUIDs (currently known are "C<ns:DNS>", "C<ns:URL>", "C<ns:OID>", and "C<ns:X500>"). The I<name> is a string of arbitrary length.

=item B<-m>

Forces the use of a random multi-cast MAC address when generating version 1 UUIDs. By default the real physical MAC address of the system is used.

=item B<-n> I<count>

Generate I<count> UUIDs instead of just a single one (the default).

=item B<-l>

If option B<-n> is used with a I<count> greater than C<l>, then this
option can enforce the reset the UUID context for each generated UUID. This makes no difference for I<version> C<3>, C<4> and C<5> UUIDs. But version C<1> UUIDs are based on the previously generated UUID which is remembered in the UUID context of the API. Option B<-1> deletes the remembered UUID on each iteration.

=item B<-F> I<format>

Representation format for importing or exporting an UUID. The following (case insensitive) format identifiers are currently recognized:

=over 4

=item C<BIN> (binary representation)

This is the raw 128 bit network byte order binary representation of a UUID. Example is the octet stream C<0xF8 0x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>.

=item C<STR> (string representation)

This is the 36 character hexadecimal ASCII string representation of a UUID. Example is the string "C<f81d4fae-7dec-11d0-a765-00a0c9e6bf6>".

=item C<SIV> (single integer value representation)

This is the maximum 39 character long single integer value representation of a UUID. Example is the string "C<329800735698586629295641978511506172918>".

=back

=item B<-o> I<filename>

Write output to I<filename> instead of to F<stdout>.

=item B<-d>

Decode a given UUID (given as a command line argument or if the command line argument is "C<->") the UUID is read from F<stdin> and dump textual information about the UUID.

=back

=head1 EXAMPLES

# generate DCE 1.1 v1 UUID (time and node based)
$ uuid -v1
# decode and dump DCE 1.1 v1 UUID (time and node based)
$ uuid -d 01c47915-4777-11d8-bc70-0090272ff725
encode: STR: 01c47915-4777-11d8-bc70-0090272ff725
        SIV: 234937403752857887923094374772111141
        version: 1 (time and node based)
              clock: 15472 (usually random)
              node: 00:90:27:2f:f7:25 (global unicast)

# generate DCE 1.1 v3 UUID (name based)
$ uuid -v3 ns:URL http://www.ossp.org/
     02d9e6d5-9467-382e-8f9b-9300a64ac3cd

# decode and dump DCE 1.1 v3 UUID (name based)
$ uuid -d 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
encode: STR: 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
        SIV: 378986628560791088810081838350376205
        version: 3 (name based, MD5)
               (not decipherable: MD5 message digest only)

# generate DCE 1.1 v4 UUID 4 (random data based)
$ uuid -v4
     eb424026-6f54-4ef8-a4d0-bb658a1fc6cf

# decode and dump DCE 1.1 v4 UUID 4 (random data based)
$ uuid -d eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
encode: STR: eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
        SIV: 312712571721458096795100956955942831823
        version: 4 (random data based)
               (no semantics: random data only)

=head1 SEE ALSO

uuid(3), OSSP::uuid(3).

=cut

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 ** uuid_cli.c: command line tool
 */

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* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/php/uuid.ts
* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/php/uuid.php5
* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/php/uuid.php4
* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid-config.pod
* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid-config.in
* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/uuid_compat.ts
* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/Makfile.PL
* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/uuid.pm
* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/uuid.ts
* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1.6.2-orig-1-tar-gz/uuid-1.6.2/Makefile.PL
* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1.6.2-orig-1-tar-gz/uuid-1.6.2/perl/uuid_compat.pm

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**
** uuid_md5.h: MD5 API definition
*/

Found in path(s):
* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1.6.2-orig-1-tar-gz/uuid-1.6.2/uuid_md5.h

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---

### uuid_compat.pod: Data::UUID Backward Compatibility Perl API (Perl/POD part)

=pod

=head1 NAME

Data::UUID - B<OSSP uuid> Backward Compatibility Perl Binding

=head1 DESCRIPTION

B<Data::UUID> is the B<OSSP uuid> backward compatibility Perl binding
to the API of the original B<Data::UUID> module. It allows other
B<Data::UUID> based Perl modules to run with B<OSSP::uuid> without
changes.

=head1 SEE ALSO

B<OSSP::uuid>.

=head1 HISTORY

The backward compatibility Perl binding B<Data::UUID> for B<OSSP
uuid> was originally implemented in 2004 by Piotr Roszatycki
E<lt>dexter@debian.orgE<gt>. It was later cleaned up and speed optimized
in December 2005 by David Wheeler E<lt>david@justatheory.comE<gt>.

=cut

---

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 **
 ** uuid_prng.c: PRNG API implementation
 */

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cfg.config.m4: PHP/Zend API build-time configuration (language: m4)
cfg

PHP_ARG_ENABLE(uuid, OSSP uuid module,

[ --enable-uuid Enable OSSP uuid extension module.])

if test "$PHP_UUID" ! = "no" ; then

PHP_NEW_EXTENSION(uuid, uuid.c, $ext_shared)
AC_DEFINE(HAVE_UUID, 1, [Have OSSP uuid library])
PHP_ADD_LIBPATH([..], )
PHP_ADD_LIBRARY([uuid],, UUID_SHARED_LIBADD)
PHP_ADD_INCLUDE([..])
PHP_SUBST(UUID_SHARED_LIBADD)

dnl avoid linking conflict with a potentially existing uuid_create(3) in libc
AC_CHECK_FUNC(uuid_create,[
SAVE_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS -Wl,-Bsymbolic"
AC_TRY_LINK([],[], [EXTRA_LDFLAGS="$EXTRA_LDFLAGS -Wl,-Bsymbolic"])
LDFLAGS="$SAVE_LDFLAGS"])
fi

Found in path(s):
* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/php/config.m4
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** OSSP ui128 - 128-Bit Arithmetic
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**
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** ui128.c: implementation of 128-bit unsigned integer arithmetic
*/

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* /opt/cola/permits/1129505846_1612286528.98/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid_ui128.c

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OSSP uuid - Universally Unique Identifier
Version 1.6.2 (04-Jul-2008)

ABSTRACT

OSSP uuid is a ISO-C:1999 application programming interface (API)
and corresponding command line interface (CLI) for the generation of
DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universally
Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version
1 (time and node based), version 3 (name based, MD5), version 4
(random number based) and version 5 (name based, SHA-1). Additional
API bindings are provided for the languages ISO-C++:1998, Perl:5 and
PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1
and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood
of uniqueness over space and time and are computationally difficult
to guess. They are globally unique identifiers which can be locally
generated without contacting a global registration authority. UUIDs
are intended as unique identifiers for both mass tagging objects
with an extremely short lifetime and to reliably identifying very persistent objects across a network.

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HOME AND DOCUMENTATION

The documentation and latest release can be found on

- http://www.ossp.org/pkg/lib/uuid/

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## uuid.pc.in: pkg-config(1) specification

prefix=@prefix@
exec_prefix=${prefix}
includedir=${prefix}/include
libdir=${exec_prefix}/lib

Name: OSSP uuid
Description: Universally Unique Identifier (UUID) Library
Version: @UUID_VERSION_RAW@
URL: http://www.ossp.org/pkg/lib/uuid/
Cflags: -I${includedir}
Libs: -L${libdir} -luuid
Libs.private: @LIBS@

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1.349 sysv-init 2.93-8

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define_COMPAT_POLL_H_
#endif

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 POLLRD NORM0x0040
#define POLLNORMPOLLRD NORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif

#define INFTIM(-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
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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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 */
ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
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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
/* 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))
#endif
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#endif
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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1.365 jmespath 0.9.4

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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
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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1.369 botocore 1.12.103+repack-1

1.369.1 Available under license:

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Source: https://pypi.python.org/pypi/botocore
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1.370 es-to-primitive 1.2.1

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1.371 open-ldap 2.6.0-r0

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# RFC1274: Cosine and Internet X.500 schema
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#
# RFC1274: Cosine and Internet X.500 schema
#
# This file contains LDAPv3 schema derived from X.500 COSINE "pilot"
# schema. As this schema was defined for X.500(89), some
# oddities were introduced in the mapping to LDAPv3. The
# mappings were based upon: draft-ietf-asid-ldapv3-attributes-03.txt
# (a work in progress)
#
# Note: It seems that the pilot schema evolved beyond what was
# described in RFC1274. However, this document attempts to describes
# RFC1274 as published.
#
# Depends on core.ldif
olcAttributeTypes: ( 0.9.2342.19200300.100.1.21 NAME 'secretary' DESC 'RFC 1274: DN of secretary' EQUALITY distinguishedNameMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.22 NAME 'otherMailbox' SYNTAX 1.3.6.1.4.1.1466.115.121.1.39 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.26 NAME 'aRecord' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.27 NAME 'mDRecord' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.28 NAME 'mXRecord' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.29 NAME 'nSRecord' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.30 NAME 'sOARecord' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.31 NAME 'cNAMERecord' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.38 NAME 'associatedName' DESC 'RFC1274: DN of entry associated with domain' EQUALITY distinguishedNameMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.39 NAME 'homePostalAddress' DESC 'RFC1274: home postal address' EQUALITY caseIgnoreListMatch SUBSTR caseIgnoreListSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.41 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.40 NAME 'personalTitle' DESC 'RFC1274: personal title' EQUALITY caseIgnoreMatch SUBSTR caseIgnoreSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{256} )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.41 NAME ( 'mobile' 'mobileTelephoneNumber' ) DESC 'RFC1274: mobile telephone number' EQUALITY telephoneNumberMatch SUBSTR telephoneNumberSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.50 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.42 NAME ( 'pager' 'pagerTelephoneNumber' ) DESC 'RFC1274: pager telephone number' EQUALITY telephoneNumberMatch SUBSTR telephoneNumberSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.50 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.43 NAME ( 'co' 'friendlyCountryName' ) DESC 'RFC1274: friendly country name' EQUALITY caseIgnoreSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.44 NAME 'uniqueIdentifier' DESC 'RFC1274: unique identifier' EQUALITY caseIgnoreMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{256} )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.45 NAME 'organizationalStatus' DESC 'RFC1274: organizational status' EQUALITY caseIgnoreSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{256} )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.46 NAME 'janetMailbox' DESC 'RFC1274: Janet mailbox' EQUALITY caseIgnoreIA5Match SUBSTR caseIgnoreIA5SubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{256} )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.47 NAME 'mailPreferenceOption' DESC 'RFC1274: mail preference option' EQUALITY caseIgnoreIA5Match SUBSTR caseIgnoreIA5SubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{256} )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.48 NAME 'buildingName' DESC 'RFC1274: name of building' EQUALITY caseIgnoreMatch SUBSTR caseIgnoreSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15(256) )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.49 NAME 'dSAQuality' DESC 'RFC1274: DSA Quality' SYNTAX 1.3.6.1.4.1.1466.115.121.1.19 SINGLE-VALUE )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.50 NAME 'singleLevelQuality' DESC 'RFC1274: Single Level Quality' SYNTAX 1.3.6.1.4.1.1466.115.121.1.13 SINGLE-VALUE )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.51 NAME 'subtreeMinimumQuality' DESC 'RFC1274: Subtree Minimum Quality' SYNTAX 1.3.6.1.4.1.1466.115.121.1.13 SINGLE-VALUE )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.52 NAME 'subtreeMaximumQuality' DESC 'RFC1274: Subtree Maximum Quality' SYNTAX 1.3.6.1.4.1.1466.115.121.1.13 SINGLE-VALUE )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.53 NAME 'personalSignature' DESC 'RFC1274: Personal Signature (G3 fax)' SYNTAX 1.3.6.1.4.1.1466.115.121.1.23 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.54 NAME 'dITRedirect' DESC 'RFC1274: DIT Redirect' EQUALITY distinguishedNameMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.55 NAME 'audio' DESC 'RFC1274: audio (u-law)' SYNTAX 1.3.6.1.4.1.1466.115.121.1.4(25000) )
olcAttributeTypes: ( 0.9.2342.19200300.100.1.56 NAME 'documentPublisher' DESC 'RFC1274: publisher of document' EQUALITY caseIgnoreMatch SUBSTR caseIgnoreSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )
olcObjectClasses: ( 0.9.2342.19200300.100.4.4 NAME ( 'pilotPerson' 'newPilotPerson' ) SUP person STRUCTURAL MAY ( userid $ textEncodedORAddress $ rfc822Mailbox $ favouriteDrink $ roomNumber $ userClass $ homeTelephoneNumber $ homePostalAddress $ secretary $ personalTitle $ preferredDeliveryMethod $ businessCategory $ janetMailbox $ otherMailbox $ mobileTelephoneNumber $ pagerTelephoneNumber $ organizationalStatus $ mailPreferenceOption $ personalSignature ) )
olcObjectClasses: ( 0.9.2342.19200300.100.4.5 NAME 'account' SUP top STRUCTURAL MUST userid MAY ( description $ seeAlso $ localityName $ organizationName $ organizationalUnitName $ host ) )
olcObjectClasses: ( 0.9.2342.19200300.100.4.6 NAME 'document' SUP top STRUCTURAL MUST documentIdentifier MAY ( commonName $ description $ seeAlso $ localityName $ organizationName $ organizationalUnitName $ documentTitle $ documentNTVersion $ documentAuthor $ documentLocation $ documentPublisher ) )
olcObjectClasses: ( 0.9.2342.19200300.100.4.7 NAME 'room' SUP top STRUCTURAL MUST commonName MAY ( roomNumber $ description $ seeAlso $ telephoneNumber ) )
olcObjectClasses: ( 0.9.2342.19200300.100.4.9 NAME 'documentSeries' SUP top STRUCTURAL MUST commonName MAY ( description $ seeAlso $ telephoneNumber $ localityName $ organizationName $ organizationalUnitName ) )
olcObjectClasses: ( 0.9.2342.19200300.100.4.13 NAME 'domain' SUP top STRUCTURAL MUST commonName MAY ( description $ seeAlso $ telephoneNumber $ localityName $ organizationName $ organizationalUnitName ) )
URAL MUST domainComponent MAY ( associatedName $ organizationName $ description $ businessCategory $ seeAlso $ searchGuide $ userPassword $ localityName $ stateOrProvinceName $ streetAddress $ physicalDeliveryOfficeName $ postalAddress $ postalCode $ postOfficeBox $ streetAddress $ facsimileTelephoneNumber $ internationalISDNNumber $ telephoneNumber $ teletexTerminalIdentifier $ telexNumber $ preferredDeliveryMethod $ destinationIndicator $ registeredAddress $ x121Address )

olcObjectClasses: ( 0.9.2342.19200300.100.4.14 NAME 'RFC822localPart' SUP domain STRUCTURAL MAY ( commonName $ surname $ description $ seeAlso $ telephoneNumber $ physicalDeliveryOfficeName $ postalAddress $ postalCode $ postOfficeBox $ streetAddress $ facsimileTelephoneNumber $ internationalISDNNumber $ telephoneNumber $ teletexTerminalIdentifier $ telexNumber $ preferredDeliveryMethod $ destinationIndicator $ registeredAddress $ x121Address )

olcObjectClasses: ( 0.9.2342.19200300.100.4.15 NAME 'dNSDomain' SUP domain STRUCTURAL MAY ( ARecord $ MDRecord $ MXRecord $ NSRecord $ SOARecord $ CNAME Record )

olcObjectClasses: ( 0.9.2342.19200300.100.4.17 NAME 'domainRelatedObject' DESC 'RFC1274: an object related to a domain' SUP top AUXILIARY MUST associatedDomain )

olcObjectClasses: ( 0.9.2342.19200300.100.4.18 NAME 'friendlyCountry' SUP country STRUCTURAL MUST friendlyCountryName )

olcObjectClasses: ( 0.9.2342.19200300.100.4.20 NAME 'pilotOrganization' SUP ( organization $ organizationalUnit ) STRUCTURAL MAY buildingName )

olcObjectClasses: ( 0.9.2342.19200300.100.4.21 NAME 'pilotDSA' SUP dsa STRUCTURAL MAY dSAQuality )

olcObjectClasses: ( 0.9.2342.19200300.100.4.22 NAME 'qualityLabelledData' SUP top AUXILIARY MUST dsaQuality MAY ( subtreeMinimumQuality $ subtreeMaximumQuality $ )

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/cosine.ldif

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# inetorgperson.schema -- InetOrgPerson (RFC2798)
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# InetOrgPerson (RFC2798)
#
# Depends upon
# Definition of an X.500 Attribute Type and an Object Class to Hold
# Uniform Resource Identifiers (URIs) [RFC2079]
#(core.schema)
#
# A Summary of the X.500(96) User Schema for use with LDAPv3 [RFC2256]
#(core.schema)
#
# The COSINE and Internet X.500 Schema [RFC1274] (cosine.schema)

# carLicense
# This multivalued field is used to record the values of the license or
# registration plate associated with an individual.
attributetype ( 2.16.840.1.113730.3.1.1
 NAME 'carLicense'
 DESC 'RFC2798: vehicle license or registration plate'
 EQUALITY caseIgnoreMatch
 SUBSTR caseIgnoreSubstringsMatch
 SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )

# departmentNumber
# Code for department to which a person belongs. This can also be
# strictly numeric (e.g., 1234) or alphanumeric (e.g., ABC/123).
attributetype ( 2.16.840.1.113730.3.1.2
 NAME 'departmentNumber'
 DESC 'RFC2798: identifies a department within an organization'
 EQUALITY caseIgnoreMatch
 SUBSTR caseIgnoreSubstringsMatch
 SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )

# displayName
# When displaying an entry, especially within a one-line summary list, it
# is useful to be able to identify a name to be used. Since other attri-
# bute types such as 'cn' are multivalued, an additional attribute type is
# needed. Display name is defined for this purpose.
attributetype ( 2.16.840.1.113730.3.1.241
 NAME 'displayName'
 DESC 'RFC2798: preferred name to be used when displaying entries'
 EQUALITY caseIgnoreMatch
 SUBSTR caseIgnoreSubstringsMatch
 SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
 SINGLE-VALUE )

# employeeNumber
# Numeric or alphanumeric identifier assigned to a person, typically based
# on order of hire or association with an organization. Single valued.
attributetype ( 2.16.840.1.113730.3.1.3
NAME 'employeeNumber' 
DESC 'RFC2798: numerically identifies an employee within an organization'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
SINGLE-VALUE )

# employeeType
# Used to identify the employer to employee relationship. Typical values
# used will be "Contractor", "Employee", "Intern", "Temp", "External", and
# "Unknown" but any value may be used.
attributetype ( 2.16.840.1.113730.3.1.4
NAME 'employeeType' 
DESC 'RFC2798: type of employment for a person'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )

# jpegPhoto
# Used to store one or more images of a person using the JPEG File
# Interchange Format [JFIF].
# Note that the jpegPhoto attribute type was defined for use in the
# Internet X.500 pilots but no referencable definition for it could be
# located.
attributetype ( 0.9.2342.19200300.100.1.60
NAME 'jpegPhoto' 
DESC 'RFC2798: a JPEG image'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.28 )

# preferredLanguage
# Used to indicate an individual's preferred written or spoken
# language. This is useful for international correspondence or human-
# computer interaction. Values for this attribute type MUST conform to
# the definition of the Accept-Language header field defined in
# [RFC2068] with one exception: the sequence "Accept-Language" ";" 
# should be omitted. This is a single valued attribute type.
attributetype ( 2.16.840.1.113730.3.1.39
NAME 'preferredLanguage' 
DESC 'RFC2798: preferred written or spoken language for a person'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
SINGLE-VALUE )

# userSMIMECertificate
# A PKCS#7 [RFC2315] SignedData, where the content that is signed is
# ignored by consumers of userSMIMECertificate values. It is
# recommended that values have a `contentType' of data with an absent
# `content' field. Values of this attribute contain a person's entire
# certificate chain and an smimeCapabilities field [RFC2633] that at a
# minimum describes their SMIME algorithm capabilities. Values for
# this attribute are to be stored and requested in binary form, as
# `userSMIMECertificate;binary`. If available, this attribute is
# preferred over the userCertificate attribute for S/MIME applications.
## OpenLDAP note: ":;binary" transfer should NOT be used as syntax is binary
attributetype ( 2.16.840.1.113730.3.1.40
NAME 'userSMIMECertificate'
DESC 'RFC2798: PKCS#7 SignedData used to support S/MIME'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.5 )

# userPKCS12
# PKCS #12 [PKCS12] provides a format for exchange of personal identity
# information. When such information is stored in a directory service,
# the userPKCS12 attribute should be used. This attribute is to be stored
# and requested in binary form, as 'userPKCS12;binary'. The attribute
# values are PFX PDUs stored as binary data.
## OpenLDAP note: ":;binary" transfer should NOT be used as syntax is binary
attributetype ( 2.16.840.1.113730.3.1.216
NAME 'userPKCS12'
DESC 'RFC2798: personal identity information, a PKCS #12 PFX'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.5 )

# inetOrgPerson
# The inetOrgPerson represents people who are associated with an
# organization in some way. It is a structural class and is derived
# from the organizationalPerson which is defined in X.521 [X521].
objectclass( 2.16.840.1.113730.3.2.2
    NAME 'inetOrgPerson'
DESC 'RFC2798: Internet Organizational Person'
    SUP organizationalPerson
    STRUCTURAL
    MAY ( audio $ businessCategory $ carLicense $ departmentNumber $
displayName $ employeeNumber $ employeeType $ givenName $
homePhone $ homePostalAddress $ initials $ jpegPhoto $
labeledURI $ mail $ manager $ mobile $ o $ pager $
photo $ roomNumber $ secretary $ uid $ userCertificate $
x500uniqueIdentifier $ preferredLanguage $
userSMIMECertificate $ userPKCS12 )
)

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* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-
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```
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#
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# subject to change (including deletion) without notice.
#
# Not recommended for production use!
# Use with extreme caution!
#
# This file was automatically generated from misc.schema; see that file
# for complete references.
#
dn: cn=misc,cn=schema,cn=config
objectClass: olcSchemaConfig
cn: misc
olcAttributeTypes: {0}( 2.16.840.1.113730.3.1.13 NAME 'mailLocalAddress' DESC 'RFC822 email address of this recipient' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{256} )
olcAttributeTypes: {1}( 2.16.840.1.113730.3.1.18 NAME 'mailHost' DESC 'FQDN of the SMTP/MTA of this recipient' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{256} SINGLE-VALUE )
olcAttributeTypes: {2}( 2.16.840.1.113730.3.1.47 NAME 'mailRoutingAddress' DESC 'RFC822 routing address of this recipient' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{256} SINGLE-VALUE )
olcAttributeTypes: {3}( 1.3.6.1.4.1.42.2.27.2.1.15 NAME 'rfc822MailMember' DESC 'RFC822 mail address of group member(s)' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcObjectClasses: {0}( 2.16.840.1.113730.3.2.147 NAME 'inetLocalMailRecipient' DESC 'Internet local mail recipient' SUP top AUXILIARY MAY ( mailLocalAddress $ mailHost $ mailRoutingAddress ) )
olcObjectClasses: {1}( 1.3.6.1.4.1.42.2.27.1.2.5 NAME 'nisMailAlias' DESC 'NIS mail alias' SUP top STRUCTURAL MUST cn MAY rfc822MailMember )```
Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/misc.ldif
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# corba.schema -- Corba Object Schema
# depends upon core.schema
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# $OpenLDAP$
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# Network Working Group                    V. Ryan
# Request for Comments: 2714                R. Lee
# Category: Informational                   S. Seligman
#                                      Sun Microsystems, Inc.
#                                      October 1999
#
# Schema for Representing CORBA Object References in an LDAP Directory
#
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#
# Abstract
# CORBA [CORBA] is the Common Object Request Broker Architecture defined by the Object Management Group. This document defines the schema for representing CORBA object references in an LDAP directory [LDAPv3].

# [trimmed]

# 3. Attribute Type Definitions

# The following attribute types are defined in this document:

# corbaIor
corbaRepositoryId

# 3.1 corbaIor

# This attribute stores the string representation of the interoperable object reference (IOR) for a CORBA object. An IOR is an opaque handle for the object which contains the information necessary to locate the object, even if the object is in another ORB.

# This attribute's syntax is 'IA5 String' and its case is insignificant.

# ( 1.3.6.1.4.1.42.2.27.4.1.14
#  NAME 'corbaIor'
#  DESC 'Stringified interoperable object reference of a CORBA object'
#  EQUALITY caseIgnoreIA5Match
#  SYNTAX 1.3.6.1.4.1.1466.115.121.1.26
#  SINGLE-VALUE
# )

attributetype ( 1.3.6.1.4.1.42.2.27.4.1.14
NAME 'corbaIor'
DESC 'Stringified interoperable object reference of a CORBA object'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26
SINGLE-VALUE )

# 3.2 corbaRepositoryId

# Each CORBA interface has a unique "repository id" (also called "type id") that identifies the interface. A CORBA object has one or more repository ids, one for each interface that it implements.

# The format of a repository id can be any string, but the OMG specifies four standard formats:

#
# a. IDL-style
# IDL:Prefix/ModuleName/InterfaceName:VersionNumber
#
# For example, the repository id for the "NamingContext" in OMG's COS
# Naming module is: "IDL:omg.org/CosNaming/NamingContext:1.0".
#
# b. RMI-style
# RMI:ClassName:HashCode[:SUID]
#
# This format is used by RMI-IIOP remote objects [RMI-IIOP].
# "ClassName" is the fully qualified name of the class (for example,
# "java.lang.String"). "HashCode" is the object's hash code (that is,
# that obtained by invoking the "hashCode()" method). "SUID" is the
# "stream unique identifier", which is a 64-bit number that uniquely
# identifies the serialization version of the class; SUID is optional
# in the repository id.
#
# c. DCE-style
# DCE:UUID
#
# This format is used for DCE/CORBA interoperability [CORBA-DCE].
# "UUID" represents a DCE UUID.
#
# d. "local"
#
# This format is defined by the local Object Request Broker (ORB).
#
# The corbaRepositoryId attribute is a multivalued attribute; each
# value records a single repository id of an interface implemented by
# the CORBA object. This attribute need not contain a complete list of
# the interfaces implemented by the CORBA object.
#
# This attribute's syntax is 'Directory String' and its case is
# significant. The values of this attribute are encoded using UTF-8.
# Some values may require translation from their native representation
# in order to be correctly encoded using UTF-8.
#
# ( 1.3.6.1.4.1.42.2.27.4.1.15
# NAME 'corbaRepositoryId'
# DESC 'Repository ids of interfaces implemented by a CORBA object'
# EQUALITY caseExactMatch
# SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
# )
#
attributetype ( 1.3.6.1.4.1.42.2.27.4.1.15
NAME 'corbaRepositoryId'
DESC 'Repository ids of interfaces implemented by a CORBA object'
EQUALITY caseExactMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )

# 4. Object Class Definitions
#
# The following object classes are defined in this document:
#
#     corbaContainer
#     corbaObject
#     corbaObjectReference
#
# 4.1 corbaContainer
#
# This structural object class represents a container for a CORBA
# object.
#
# ( 1.3.6.1.4.1.42.2.27.4.2.10
#  NAME 'corbaContainer'
#  DESC 'Container for a CORBA object'
#  SUP top
#  STRUCTURAL
#  MUST ( cn )
# )
#
objectclass ( 1.3.6.1.4.1.42.2.27.4.2.10
NAME 'corbaContainer'
DESC 'Container for a CORBA object'
SUP top
STRUCTURAL
MUST cn )

# 4.2 corbaObject
#
# This abstract object class is the root class for representing a CORBA
# object.
#
# ( 1.3.6.1.4.1.42.2.27.4.2.9
#  NAME 'corbaObject'
#  DESC 'CORBA object representation'
#  SUP top
#  ABSTRACT
#  MAY ( corbaRepositoryId $ description )
# )
#
objectclass ( 1.3.6.1.4.1.42.2.27.4.2.9
NAME 'corbaObject'  
DESC 'CORBA object representation'  
SUP top  
ABSTRACT  
MAY ( corbaRepositoryId $ description )

# 4.3 corbaObjectReference
#
# This auxiliary object class represents a CORBA object reference. It
# must be mixed in with a structural object class.
#
# ( 1.3.6.1.4.1.42.2.27.4.2.11
#  NAME 'corbaObjectReference'
#  DESC 'CORBA interoperable object reference'
#  SUP corbaObject
#  AUXILIARY
#  MUST ( corbaIor )
# )
#
objectclass ( 1.3.6.1.4.1.42.2.27.4.2.11
NAME 'corbaObjectReference'
DESC 'CORBA interoperable object reference'
SUP corbaObject
AUXILIARY
MUST corbaIor )

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* /opt/cola/permits/1235932556_1639572800.57/0/opendap-2-6-0-r0-tar-gz/opendap-2.6.0-r0/etc/opendap/schema/corba.schema

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

# java.schema -- Java Object Schema
# $OpenLDAP$
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#
# Java Object Schema (defined in RFC 2713)
#depends upon core.schema
#
# Network Working Group V. Ryan
# Request for Comments: 2713 S. Seligman
# Category: Informational R. Lee
# Sun Microsystems, Inc.
# October 1999
#
# Schema for Representing Java(tm) Objects in an LDAP Directory
#
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# Abstract

This document defines the schema for representing Java(tm) objects in an LDAP directory [LDAPv3]. It defines schema elements to represent a Java serialized object [Serial], a Java marshalled object [RMI], a Java remote object [RMI], and a JNDI reference [JNDI].

# 3 Attribute Type Definitions

The following attribute types are defined in this document:

- javaClassName
- javaClassNames
- javaCodebase
- javaSerializedData
- javaFactory
- javaReferenceAddress
- javaDoc

# 3.1 javaClassName

This attribute stores the fully qualified name of the Java object's "distinguished" class or interface (for example, "java.lang.String"). It is a single-valued attribute. This attribute's syntax is 'Directory String' and its case is significant.

```
attributetype ( 1.3.6.1.4.1.42.2.27.4.1.6
  NAME 'javaClassName'
  DESC 'Fully qualified name of distinguished Java class or interface'
  EQUALITY caseExactMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
  SINGLE-VALUE
)
```

# 3.2 javaCodebase

```
This attribute stores the Java class definition's locations. It specifies the locations from which to load the class definition for the class specified by the javaClassName attribute. Each value of the attribute contains an ordered list of URLs, separated by spaces. For example, a value of "url1 url2 url3" means that the three (possibly interdependent) URLs (url1, url2, and url3) form the codebase for loading in the Java class definition.

If the javaCodebase attribute contains more than one value, each value is an independent codebase. That is, there is no relationship between the URLs in one value and those in another; each value can be viewed as an alternate source for loading the Java class definition.

See [Java] for information regarding class loading.

This attribute's syntax is 'IA5 String' and its case is significant.

( 1.3.6.1.4.1.42.2.27.4.1.7
  NAME 'javaCodebase'
  DESC 'URL(s) specifying the location of class definition'
  EQUALITY caseExactIA5Match
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.26
)

attributetype ( 1.3.6.1.4.1.42.2.27.4.1.7
  NAME 'javaCodebase'
  DESC 'URL(s) specifying the location of class definition'
  EQUALITY caseExactIA5Match
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

This attribute stores the Java object's fully qualified class or interface names (for example, "java.lang.String"). It is a multivalued attribute. When more than one value is present, each is the name of a class or interface, or ancestor class or interface, of this object.

This attribute's syntax is 'Directory String' and its case is significant.

( 1.3.6.1.4.1.42.2.27.4.1.13
  NAME 'javaClassNames'
  DESC 'Fully qualified Java class or interface name'
  EQUALITY caseExactMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
)

#
attributetype ( 1.3.6.1.4.1.42.2.27.4.1.13 
NAME 'javaClassNames' 
DESC 'Fully qualified Java class or interface name' 
EQUALITY caseExactMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )

# 3.4 javaSerializedData 
# 
# This attribute stores the serialized form of a Java object. The 
# serialized form is described in [Serial]. 
# 
# This attribute's syntax is 'Octet String'. 
# 
# ( 1.3.6.1.4.1.42.2.27.4.1.8 
# NAME 'javaSerializedData' 
# DESC 'Serialized form of a Java object' 
# SYNTAX 1.3.6.1.4.1.1466.115.121.1.40 
# SINGLE-VALUE 
# )

attributetype ( 1.3.6.1.4.1.42.2.27.4.1.8 
NAME 'javaSerializedData' 
DESC 'Serialized form of a Java object' 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.40 
SINGLE-VALUE )

# 3.5 javaFactory 
# 
# This attribute stores the fully qualified class name of the object 
# factory (for example, "com.wiz.jndi.WizObjectFactory") that can be 
# used to create an instance of the object identified by the 
# javaClassName attribute. 
# 
# This attribute's syntax is 'Directory String' and its case is 
# significant. 
# 
# ( 1.3.6.1.4.1.42.2.27.4.1.10 
# NAME 'javaFactory' 
# DESC 'Fully qualified Java class name of a JNDI object factory' 
# EQUALITY caseExactMatch 
# SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 
# SINGLE-VALUE 
# )

attributetype ( 1.3.6.1.4.1.42.2.27.4.1.10 
NAME 'javaFactory' 
DESC 'Fully qualified Java class name of a JNDI object factory' 
EQUALITY caseExactMatch
# 3.6 javaReferenceAddress
#
# This attribute represents the sequence of addresses of a JNDI
# reference. Each of its values represents one address, a Java object
# of type javax.naming.RefAddr. Its value is a concatenation of the
# address type and address contents, preceded by a sequence number (the
# order of addresses in a JNDI reference is significant). For example:
#
#   #0#TypeA#ValA
#   #1#TypeB#ValB
#   #2#TypeC##rO0ABXNyABpq...
#
# In more detail, the value is encoded as follows:
#
# The delimiter is the first character of the value. For readability
# the character '#' is recommended when it is not otherwise used
# anywhere in the value, but any character may be used subject to
# restrictions given below.
#
# The first delimiter is followed by the sequence number. The sequence
# number of an address is its position in the JNDI reference, with the
# first address being numbered 0. It is represented by its shortest
# string form, in decimal notation.
#
# The sequence number is followed by a delimiter, then by the address
# type, and then by another delimiter. If the address is of Java class
# javax.naming.StringRefAddr, then this delimiter is followed by the
# value of the address contents (which is a string). Otherwise, this
# delimiter is followed immediately by another delimiter, and then by
# the Base64 encoding of the serialized form of the entire address.
#
# The delimiter may be any character other than a digit or a character
# contained in the address type. In addition, if the address contents
# is a string, the delimiter may not be the first character of that
# string.
#
# This attribute's syntax is 'Directory String' and its case is
# significant. It can contain multiple values.
#
# ( 1.3.6.1.4.1.42.2.27.4.1.11
#   NAME 'javaReferenceAddress'
#   DESC 'Addresses associated with a JNDI Reference'
#   EQUALITY caseExactMatch
#   SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
# )
attributetype ( 1.3.6.1.4.1.42.2.27.4.1.11
NAME 'javaReferenceAddress'
DESC 'Addresses associated with a JNDI Reference'
EQUALITY caseExactMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )

# 3.7 javaDoc
#
# This attribute stores a pointer to the Java documentation for the
# class. It's value is a URL. For example, the following URL points to
# the specification of the java.lang.String class:
# http://java.sun.com/products/jdk/1.2/docs/api/java/lang/String.html
#
# This attribute's syntax is 'IA5 String' and its case is significant.
#
# ( 1.3.6.1.4.1.42.2.27.4.1.12
#  NAME 'javaDoc'
#  DESC 'The Java documentation for the class'
#  EQUALITY caseExactIA5Match
#  SYNTAX 1.3.6.1.4.1.1466.115.121.1.26
# )
#
attributetype ( 1.3.6.1.4.1.42.2.27.4.1.12
NAME 'javaDoc'
DESC 'The Java documentation for the class'
EQUALITY caseExactIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

# 4 Object Class Definitions
#
# The following object classes are defined in this document:
#
# javaContainer
# javaObject
# javaSerializedObject
# javaMarshalledObject
# javaNamingReference
#
# 4.1 javaContainer
#
# This structural object class represents a container for a Java
# object.
#
# ( 1.3.6.1.4.1.42.2.27.4.2.1
#  NAME 'javaContainer'
#  DESC 'Container for a Java object'
#  SUP top

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objectclass ( 1.3.6.1.4.1.42.2.27.4.2.1
NAME 'javaContainer'
DESC 'Container for a Java object'
SUP top
STRUCTURAL
MUST cn )

# 4.2 javaObject
#
# This abstract object class represents a Java object. A javaObject
# cannot exist in the directory; only auxiliary or structural
# subclasses of it can exist in the directory.
#
# ( 1.3.6.1.4.1.42.2.27.4.2.4
#   NAME 'javaObject'
#   DESC 'Java object representation'
#   SUP top
#   ABSTRACT
#   MUST ( javaClassName )
#   MAY ( javaClassNames $ javaCodebase $
#     javaDoc $
#     description )
#   )
#
objectclass ( 1.3.6.1.4.1.42.2.27.4.2.4
NAME 'javaObject'
DESC 'Java object representation'
SUP top
ABSTRACT
MUST javaClassName
MAY ( javaClassNames $ javaCodebase $ javaDoc $ description ) )

# 4.3 javaSerializedObject
#
# This auxiliary object class represents a Java serialized object. It
# must be mixed in with a structural object class.
#
# ( 1.3.6.1.4.1.42.2.27.4.2.5
#   NAME 'javaSerializedObject'
#   DESC 'Java serialized object'
#   SUP javaObject
#   AUXILIARY

objectclass ( 1.3.6.1.4.1.42.2.27.4.2.5
NAME 'javaSerializedObject'
DESC 'Java serialized object'
SUP javaObject
AUXILIARY
MUST javaSerializedData )

objectclass ( 1.3.6.1.4.1.42.2.27.4.2.8
NAME 'javaMarshalledObject'
DESC 'Java marshalled object'
SUP javaObject
AUXILIARY
MUST javaSerializedData )

objectclass ( 1.3.6.1.4.1.42.2.27.4.2.7
NAME 'javaNamingReference'
DESC 'JNDI reference'
SUP javaObject
AUXILIARY
MAY ( javaReferenceAddress $
    javaFactory )
)

objectclass ( 1.3.6.1.4.1.42.2.27.4.2.7
NAME 'javaNamingReference'
DESC 'JNDI reference'
SUP javaObject

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# From RFC 3671 [portions trimmed]:
# Collective Attributes in LDAP
#
# This file was automatically generated from collective.schema; see that file
# for complete references.
#
# dn: cn=collective,cn=schema,cn=config
objectClass: olcSchemaConfig
cn: collective

olcAttributeTypes: {0}( 2.5.4.7.1 NAME 'c-l' SUP l COLLECTIVE )
olcAttributeTypes: {1}( 2.5.4.8.1 NAME 'c-st' SUP st COLLECTIVE )
olcAttributeTypes: {2}( 2.5.4.9.1 NAME 'c-street' SUP street COLLECTIVE )
olcAttributeTypes: {3}( 2.5.4.10.1 NAME 'c-o' SUP o COLLECTIVE )
olcAttributeTypes: {4}( 2.5.4.11.1 NAME 'c-ou' SUP ou COLLECTIVE )
olcAttributeTypes: {5}( 2.5.4.16.1 NAME 'c-PostalAddress' SUP postalAddress COLLECTIVE )
olcAttributeTypes: {6}( 2.5.4.17.1 NAME 'c-PostalCode' SUP postalCode COLLECTIVE )
olcAttributeTypes: {7}( 2.5.4.18.1 NAME 'c-PostOfficeBox' SUP postOfficeBox COLLECTIVE )
olcAttributeTypes: {8}( 2.5.4.19.1 NAME 'c-PhysicalDeliveryOfficeName' SUP physicalDeliveryOfficeName COLLECTIVE )
olcAttributeTypes: {9}( 2.5.4.20.1 NAME 'c-TelephoneNumber' SUP telephoneNumber COLLECTIVE )
olcAttributeTypes: {10}( 2.5.4.21.1 NAME 'c-TelexNumber' SUP telexNumber COLLECTIVE )
olcAttributeTypes: {11}( 2.5.4.23.1 NAME 'c-FacsimileTelephoneNumber' SUP facsimileTelephoneNumber COLLECTIVE )
olcAttributeTypes: {12}( 2.5.4.25.1 NAME 'c-InternationalISDNNumber' SUP international ISDNNumber COLLECTIVE )

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* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/collective.ldif
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# Includes LDAPv3 schema items from:
# ITU X.509 (08/2005)
#
## X.509 (08/2005) pp. 120-121
##
### -- object identifier assignments --
### -- object classes --
## id-oc-pmiUser OBJECT IDENTIFIER ::= {id-oc 24}
## id-oc-pmiAA OBJECT IDENTIFIER ::= {id-oc 25}
## id-oc-pmiSOA OBJECT IDENTIFIER ::= {id-oc 26}
## id-oc-attCertCRLDistributionPts
OBJECT IDENTIFIER ::= {id-oc 27}

## id-oc-privilegePolicy
OBJECT IDENTIFIER ::= {id-oc 32}

## id-oc-pmiDelegationPath
OBJECT IDENTIFIER ::= {id-oc 33}

## id-oc-protectedPrivilegePolicy
OBJECT IDENTIFIER ::= {id-oc 34}

## -- directory attributes --

## id-at-attributeCertificate
OBJECT IDENTIFIER ::= {id-at 58}

## id-at-attributeCertificateRevocationList
OBJECT IDENTIFIER ::= {id-at 59}

## id-at-aACertificate
OBJECT IDENTIFIER ::= {id-at 61}

## id-at-attributeDescriptorCertificate
OBJECT IDENTIFIER ::= {id-at 62}

## id-at-attributeAuthorityRevocationList
OBJECT IDENTIFIER ::= {id-at 63}

## id-at-privPolicy
OBJECT IDENTIFIER ::= {id-at 71}

## id-at-role
OBJECT IDENTIFIER ::= {id-at 72}

## id-at-delegationPath
OBJECT IDENTIFIER ::= {id-at 73}

## id-at-protPrivPolicy
OBJECT IDENTIFIER ::= {id-at 74}

## id-at-xMLPrivilegeInfo
OBJECT IDENTIFIER ::= {id-at 75}

## id-at-xMLPprotPrivPolicy
OBJECT IDENTIFIER ::= {id-at 76}

## -- attribute certificate extensions --

## id-ce-authorityAttributeIdentifier
OBJECT IDENTIFIER ::= {id-ce 38}

## id-ce-roleSpecCertIdentifier
OBJECT IDENTIFIER ::= {id-ce 39}

## id-ce-basicAttConstraints
OBJECT IDENTIFIER ::= {id-ce 41}

## id-ce-delegatedNameConstraints
OBJECT IDENTIFIER ::= {id-ce 42}

## id-ce-timeSpecification
OBJECT IDENTIFIER ::= {id-ce 43}

## id-ce-attributeDescriptor
OBJECT IDENTIFIER ::= {id-ce 48}

## id-ce-userNotice
OBJECT IDENTIFIER ::= {id-ce 49}

## id-ce-sOAIdentifier
OBJECT IDENTIFIER ::= {id-ce 50}

## id-ce-acceptableCertPolicies
OBJECT IDENTIFIER ::= {id-ce 52}

## id-ce-targetInformation
OBJECT IDENTIFIER ::= {id-ce 55}

## id-ce-noRevAvail
OBJECT IDENTIFIER ::= {id-ce 56}

## id-ce-acceptablePrivilegePolicies
OBJECT IDENTIFIER ::= {id-ce 57}

## id-ce-indirectIssuer
OBJECT IDENTIFIER ::= {id-ce 61}

## id-ce-noAssertion
OBJECT IDENTIFIER ::= {id-ce 62}

## id-ce-issuedOnBehalfOf
OBJECT IDENTIFIER ::= {id-ce 64}

## -- PMI matching rules --

## id-mr-attributeCertificateMatch
OBJECT IDENTIFIER ::= {id-mr 42}

## id-mr-attributeCertificateExactMatch
OBJECT IDENTIFIER ::= {id-mr 45}

## id-mr-holderIssuerMatch
OBJECT IDENTIFIER ::= {id-mr 46}

## id-mr-authAtIdMatch
OBJECT IDENTIFIER ::= {id-mr 53}

## id-mr-roleSpecCertIdMatch
OBJECT IDENTIFIER ::= {id-mr 54}

## id-mr-basicAttConstraintsMatch
OBJECT IDENTIFIER ::= {id-mr 55}

## id-mr-delegatedNameConstraintsMatch
OBJECT IDENTIFIER ::= {id-mr 56}

## id-mr-timeSpecMatch
OBJECT IDENTIFIER ::= {id-mr 57}

## id-mr-attDescriptorMatch
OBJECT IDENTIFIER ::= {id-mr 58}

## id-mr-acceptableCertPoliciesMatch
OBJECT IDENTIFIER ::= {id-mr 59}

## id-mr-delegationPathMatch
OBJECT IDENTIFIER ::= {id-mr 61}

## id-mr-sOAIdentifierMatch
OBJECT IDENTIFIER ::= {id-mr 66}

## id-mr-indirectIssuerMatch
OBJECT IDENTIFIER ::= {id-mr 67}

##
## X.509 (08/2005) pp. 71, 86-89

### 14.4.1 Role attribute

**role** ATTRIBUTE ::= {
  **WITH SYNTAX** RoleSyntax
  **ID**       id-at-role }

**RoleSyntax** ::= SEQUENCE {
  roleAuthority     [0]     GeneralNames  OPTIONAL,
  roleName          [1]     GeneralName }

### 14.5 XML privilege information attribute

**xmlPrivilegeInfo** ATTRIBUTE ::= {
  **WITH SYNTAX** UTF8String -- contains XML-encoded privilege information
  **ID**       id-at-xmlPrivilegeInfo }

### 17.1 PMI directory object classes

#### 17.1.1 PMI user object class

**pmiUser** OBJECT-CLASS ::= {
  -- a PMI user (i.e., a "holder")
  **SUBCLASS OF**   {top}
  **KIND**          auxiliary
  **MAY CONTAIN**   {attributeCertificateAttribute}
  **ID**           id-oc-pmiUser }

#### 17.1.2 PMI AA object class

**pmiAA** OBJECT-CLASS ::= {
  -- a PMI AA
  **SUBCLASS OF**   {top}
  **KIND**          auxiliary
  **MAY CONTAIN**   {aACertificate |
                   attributeCertificateRevocationList |
                   attributeAuthorityRevocationList} 
  **ID**           id-oc-pmiAA }

#### 17.1.3 PMI SOA object class

**pmiSOA** OBJECT-CLASS ::= { -- a PMI Source of Authority
  **SUBCLASS OF**   {top}
  **KIND**          auxiliary
  **MAY CONTAIN**   {attributeCertificateRevocationList |
                   attributeAuthorityRevocationList |
                   attributeDescriptorCertificate}
  **ID**           id-oc-pmiSOA }

#### 17.1.4 Attribute certificate CRL distribution point object class

**attCertCRLDistributionPt** OBJECT-CLASS ::= {
  **SUBCLASS OF**   {top}
  **KIND**          auxiliary
## 17.1.5 PMI delegation path

### pmiDelegationPath OBJECT-CLASS ::= {
  # SUBCLASS OF {top}
  # KIND auxiliary
  # MAY CONTAIN { delegationPath }
  # ID id-oc-pmiDelegationPath }

## 17.1.6 Privilege policy object class

### privilegePolicy OBJECT-CLASS ::= {
  # SUBCLASS OF {top}
  # KIND auxiliary
  # MAY CONTAIN { privPolicy }
  # ID id-oc-privilegePolicy }

## 17.1.7 Protected privilege policy object class

### protectedPrivilegePolicy OBJECT-CLASS ::= {
  # SUBCLASS OF {top}
  # KIND auxiliary
  # MAY CONTAIN { protPrivPolicy }
  # ID id-oc-protectedPrivilegePolicy }

## 17.2 PMI Directory attributes

### 17.2.1 Attribute certificate attribute

#### attributeCertificateAttribute ATTRIBUTE ::= {
  WITH SYNTAX AttributeCertificate
  EQUALITY MATCHING RULE attributeCertificateExactMatch
  ID id-at-attributeCertificate }

### 17.2.2 AA certificate attribute

#### aACertificate ATTRIBUTE ::= {
  WITH SYNTAX AttributeCertificate
  EQUALITY MATCHING RULE attributeCertificateExactMatch
  ID id-at-aACertificate }

### 17.2.3 Attribute descriptor certificate attribute

#### attributeDescriptorCertificate ATTRIBUTE ::= {
  WITH SYNTAX AttributeCertificate
  EQUALITY MATCHING RULE attributeCertificateExactMatch
  ID id-at-attributeDescriptorCertificate }

### 17.2.4 Attribute certificate revocation list attribute

#### attributeCertificateRevocationList ATTRIBUTE ::= {
  WITH SYNTAX CertificateList
## 17.2.5 AA certificate revocation list attribute

attributeAuthorityRevocationList ATTRIBUTE ::= {
  WITH SYNTAX CertificateList
  EQUALITY MATCHING RULE certificateListExactMatch
  ID id-at-attributeAuthorityRevocationList }

## 17.2.6 Delegation path attribute

delegationPath ATTRIBUTE ::= {
  WITH SYNTAX AttCertPath
  ID id-at-delegationPath }

AttCertPath ::= SEQUENCE OF AttributeCertificate

## 17.2.7 Privilege policy attribute

privPolicy ATTRIBUTE ::= {
  WITH SYNTAX PolicySyntax
  ID id-at-privPolicy }

## 17.2.8 Protected privilege policy attribute

protPrivPolicy ATTRIBUTE ::= {
  WITH SYNTAX AttributeCertificate
  EQUALITY MATCHING RULE attributeCertificateExactMatch
  ID id-at-protPrivPolicy }

## 17.2.9 XML Protected privilege policy attribute

xmlPrivPolicy ATTRIBUTE ::= {
  WITH SYNTAX UTF8String -- contains XML-encoded privilege policy information
  ID id-at-xmlPprotPrivPolicy }

## -- object identifier assignments --

-- object classes --

objectidentifier id-oc-pmiUser 2.5.6.24
objectidentifier id-oc-pmiAA 2.5.6.25
objectidentifier id-oc-pmiSOA 2.5.6.26
objectidentifier id-oc-attCertCRLDistributionPts 2.5.6.27
objectidentifier id-oc-privilegePolicy 2.5.6.32
objectidentifier id-oc-pmiDelegationPath 2.5.6.33
objectidentifier id-oc-protectedPrivilegePolicy 2.5.6.34

-- directory attributes --

objectidentifier id-at-attributeCertificate 2.5.4.58
objectidentifier id-at-attributeCertificateRevocationList 2.5.4.59
objectidentifier id-at-aACertificate 2.5.4.61
objectidentifier id-at-attributeDescriptorCertificate 2.5.4.62
objectidentifier id-at-attributeAuthorityRevocationList 2.5.4.63
objectidentifier id-at-privPolicy 2.5.4.71
objectidentifier-at-role 2.5.4.72
objectidentifier-at-delegationPath 2.5.4.73
objectidentifier-at-protPrivPolicy 2.5.4.74
objectidentifier-at-xMLPrivilegeInfo 2.5.4.75
objectidentifier-at-xMLProtPrivPolicy 2.5.4.76

## -- attribute certificate extensions --

## id-ce-authorityAttributeIdentifier OBJECT IDENTIFIER ::= {id-ce 38}
## id-ce-roleSpecCertIdentifier OBJECT IDENTIFIER ::= {id-ce 39}
## id-ce-basicAttConstraints OBJECT IDENTIFIER ::= {id-ce 41}
## id-ce-delegatedNameConstraints OBJECT IDENTIFIER ::= {id-ce 42}
## id-ce-timeSpecification OBJECT IDENTIFIER ::= {id-ce 43}
## id-ce-attributeDescriptor OBJECT IDENTIFIER ::= {id-ce 48}
## id-ce-userNotice OBJECT IDENTIFIER ::= {id-ce 49}
## id-ce-sOAIdentifier OBJECT IDENTIFIER ::= {id-ce 50}
## id-ce-acceptableCertPolicies OBJECT IDENTIFIER ::= {id-ce 52}
## id-ce-targetInformation OBJECT IDENTIFIER ::= {id-ce 55}
## id-ce-noRevAvail OBJECT IDENTIFIER ::= {id-ce 56}
## id-ce-acceptablePrivilegePolicies OBJECT IDENTIFIER ::= {id-ce 57}
## id-ce-indirectIssuer OBJECT IDENTIFIER ::= {id-ce 61}
## id-ce-noAssertion OBJECT IDENTIFIER ::= {id-ce 62}
## id-ce-issuedOnBehalfOf OBJECT IDENTIFIER ::= {id-ce 64}

## -- PMI matching rules --

objectidentifier-mr 2.5.13
objectidentifier-mr-attributeCertificateMatch id-mr:42
objectidentifier-mr-attributeCertificateExactMatch id-mr:45
objectidentifier-mr-holderIssuerMatch id-mr:46
objectidentifier-mr-authAttIdMatch id-mr:53
objectidentifier-mr-roleSpecCertIdMatch id-mr:54
objectidentifier-mr-basicAttConstraintsMatch id-mr:55
objectidentifier-mr-delegatedNameConstraintsMatch id-mr:56
objectidentifier-mr-timeSpecMatch id-mr:57
objectidentifier-mr-attDescriptorMatch id-mr:58
objectidentifier-mr-acceptableCertPoliciesMatch id-mr:59
objectidentifier-mr-delegationPathMatch id-mr:61
objectidentifier-mr-sOAIdentifierMatch id-mr:66
objectidentifier-mr-indirectIssuerMatch id-mr:67

## -- syntaxes --

## NOTE: 1.3.6.1.4.1.4203.666.11.10 is the oid arc assigned by OpenLDAP
## to this work in progress

objectidentifierAttributeCertificate 1.3.6.1.4.1.4203.666.11.10.2.1
objectidentifierCertificateList 1.3.6.1.4.1.1466.115.121.1.9
objectidentifierAttCertPath 1.3.6.1.4.1.4203.666.11.10.2.4
objectidentifierPolicySyntax 1.3.6.1.4.1.4203.666.11.10.2.5
objectidentifierRoleSyntax 1.3.6.1.4.1.4203.666.11.10.2.6

# NOTE: OIDs from <draft-ietf-pkix-ldap-schema-02.txt> (expired)
# objectidentifierAttributeCertificate 1.2.826.0.1.3344810.7.5
# objectidentifierAttCertPath 1.2.826.0.1.3344810.7.10
# objectidentifierPolicySyntax 1.2.826.0.1.3344810.7.17
#objectidentifierRoleSyntax 1.2.826.0.1.3344810.7.13
##
## Substitute syntaxes
##
## AttCertPath
ldapsyntax ( 1.3.6.1.4.1.4203.666.11.10.2.4
NAME 'AttCertPath'
DESC 'X.509 PMI attribute certificate path: SEQUENCE OF AttributeCertificate'
X-SUBST '1.3.6.1.4.1.1466.115.121.1.15' )
##
## PolicySyntax
ldapsyntax ( 1.3.6.1.4.1.4203.666.11.10.2.5
NAME 'PolicySyntax'
DESC 'X.509 PMI policy syntax'
X-SUBST '1.3.6.1.4.1.1466.115.121.1.15' )
##
## RoleSyntax
ldapsyntax ( 1.3.6.1.4.1.4203.666.11.10.2.6
NAME 'RoleSyntax'
DESC 'X.509 PMI role syntax'
X-SUBST '1.3.6.1.4.1.1466.115.121.1.15' )
##
## X.509 (08/2005) pp. 71, 86-89
##
## 14.4.1 Role attribute
attributeType ( id-at-role
NAME 'role'
DESC 'X.509 Role attribute, use ;binary'
SYNTAX RoleSyntax )
##
## 14.5 XML privilege information attribute
## -- contains XML-encoded privilege information
attributeType ( id-at-xMLPrivilegeInfo
NAME 'xmlPrivilegeInfo'
DESC 'X.509 XML privilege information attribute'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )
##
## 17.2 PMI Directory attributes
##
## 17.2.1 Attribute certificate attribute
attributeType ( id-at-attributeCertificate
NAME 'attributeCertificateAttribute'
DESC 'X.509 Attribute certificate attribute, use ;binary'
SYNTAX AttributeCertificate
EQUALITY attributeCertificateExactMatch )
##
## 17.2.2 AA certificate attribute
attributeType ( id-at-aACertificate
NAME 'aACertificate'
DESC 'X.509 AA certificate attribute, use ;binary'
SYNTAX AttributeCertificate
EQUALITY attributeCertificateExactMatch )
##
## 17.2.3  Attribute descriptor certificate attribute
attributeType ( id-at-attributeDescriptorCertificate
NAME 'attributeDescriptorCertificate'
DESC 'X.509 Attribute descriptor certificate attribute, use ;binary'
SYNTAX AttributeCertificate
EQUALITY attributeCertificateExactMatch )
##
## 17.2.4  Attribute certificate revocation list attribute
attributeType ( id-at-attributeCertificateRevocationList
NAME 'attributeCertificateRevocationList'
DESC 'X.509 Attribute certificate revocation list attribute, use ;binary'
SYNTAX CertificateList
X-EQUALITY 'certificateListExactMatch, not implemented yet' )
##
## 17.2.5  AA certificate revocation list attribute
attributeType ( id-at-attributeAuthorityRevocationList
NAME 'attributeAuthorityRevocationList'
DESC 'X.509 AA certificate revocation list attribute, use ;binary'
SYNTAX CertificateList
X-EQUALITY 'certificateListExactMatch, not implemented yet' )
##
## 17.2.6  Delegation path attribute
attributeType ( id-at-delegationPath
NAME 'delegationPath'
DESC 'X.509 Delegation path attribute, use ;binary'
SYNTAX AttCertPath )
##
## 17.2.7  Privilege policy attribute
attributeType ( id-at-privPolicy
NAME 'privPolicy'
DESC 'X.509 Privilege policy attribute, use ;binary'
SYNTAX PolicySyntax )
##
## 17.2.8  Protected privilege policy attribute
attributeType ( id-at-protPrivPolicy
NAME 'protPrivPolicy'
DESC 'X.509 Protected privilege policy attribute, use ;binary'
SYNTAX AttributeCertificate
EQUALITY attributeCertificateExactMatch )
##
## 17.2.9  XML Protected privilege policy attribute
## -- contains XML-encoded privilege policy information
attributeType ( id-at-xMLProtPrivPolicy
NAME 'xmlPrivPolicy'
DESC 'X.509 XML Protected privilege policy attribute'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )
#
## 17.1 PMI directory object classes
##
## 17.1.1  PMI user object class
##  -- a PMI user (i.e., a "holder")
objectClass ( id-oc-pmiUser
NAME 'pmiUser'
DESC 'X.509 PMI user object class'
SUP top
AUXILIARY
MAY ( attributeCertificateAttribute ) )
##
## 17.1.2  PMI AA object class
##  -- a PMI AA
objectClass ( id-oc-pmiAA
NAME 'pmiAA'
DESC 'X.509 PMI AA object class'
SUP top
AUXILIARY
MAY ( aACertificate $ attributeCertificateRevocationList $ attributeAuthorityRevocationList ) )
##
## 17.1.3  PMI SOA object class
##  -- a PMI Source of Authority
objectClass ( id-oc-pmiSOA
NAME 'pmiSOA'
DESC 'X.509 PMI SOA object class'
SUP top
AUXILIARY
MAY ( attributeCertificateRevocationList $ attributeAuthorityRevocationList $ attributeDescriptorCertificate ) )
##
## 17.1.4  Attribute certificate CRL distribution point object class
objectClass ( id-oc-attCertCRLDistributionPts
NAME 'attCertCRLDistributionPt'
DESC 'X.509 Attribute certificate CRL distribution point object class'
SUP top
AUXILIARY
MAY ( attributeCertificateRevocationList $ attributeAuthorityRevocationList )
## 17.1.5 PMI delegation path
objectClass ( id-oc-pmiDelegationPath
NAME 'pmiDelegationPath'
DESC 'X.509 PMI delegation path'
SUP top
AUXILIARY
MAY ( delegationPath ) )
##
## 17.1.6 Privilege policy object class
objectClass ( id-oc-privilegePolicy
NAME 'privilegePolicy'
DESC 'X.509 Privilege policy object class'
SUP top
AUXILIARY
MAY ( privPolicy ) )
##
## 17.1.7 Protected privilege policy object class
objectClass ( id-oc-protectedPrivilegePolicy
NAME 'protectedPrivilegePolicy'
DESC 'X.509 Protected privilege policy object class'
SUP top
AUXILIARY
MAY ( protPrivPolicy ) )

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/pmi.schema

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

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# DUA schema from draft-joslin-config-schema (a work in progress)

# Contents of this file are subject to change (including deletion)
# Abstract

This document describes a mechanism for global configuration of similar directory user agents. This document defines a schema for configuration of these DUAs that may be discovered using the Lightweight Directory Access Protocol in RFC 2251[17]. A set of attribute types and an objectclass are proposed, along with specific guidelines for interpreting them. A significant feature of the global configuration policy for DUAs is a mechanism that allows DUAs to re-configure their schema to that of the end user's environment. This configuration is achieved through attribute and objectclass mapping. This document is intended to be a skeleton for future documents that describe configuration of specific DUA services.

# 2. General Issues

The schema defined by this document is defined under the "DUA Configuration Schema." This schema is derived from the OID: iso (1) org (3) dod (6) internet (1) private (4) enterprises (1) Hewlett-Packard Company (11) directory (1) LDAP-UX Integration Project (3) DUA Configuration Schema (1). This OID is represented in this document by the keystorestring "DUACConfSchemaOID" (1.3.6.1.4.1.11.1.3.1). objectidentifier DUACConfSchemaOID 1.3.6.1.4.1.11.1.3.1

# 2.2 Attributes

The attributes and classes defined in this document are summarized below.

The following attributes are defined in this document:

preferredServerList
defaultServerList
# defaultSearchBase
# defaultSearchScope
# authenticationMethod
# credentialLevel
# serviceSearchDescriptor
#
#
# Joslin [Page 3]
# Internet-Draft DUA Configuration Schema October 2002
#
#
# serviceCredentialLevel
# serviceAuthenticationMethod
# attributeMap
# objectClassMap
# searchTimeLimit
# bindTimeLimit
# followReferrals
# dereferenceAliases
# profileTTL
#
# 2.3 Object Classes
#
# The following object class is defined in this document:
#
# DUAConfigProfile
#
#
attributeType ( DUAConfSchemaOID:1.0 NAME 'defaultServerList'
   DESC 'Default LDAP server host address used by a DUA'
   EQUALITY caseIgnoreMatch
   SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
   SINGLE-VALUE )

attributeType ( DUAConfSchemaOID:1.1 NAME 'defaultSearchBase'
   DESC 'Default LDAP base DN used by a DUA'
   EQUALITY distinguishedNameMatch
   SYNTAX 1.3.6.1.4.1.1466.115.121.1.12
   SINGLE-VALUE )

attributeType ( DUAConfSchemaOID:1.2 NAME 'preferredServerList'
   DESC 'Preferred LDAP server host addresses to be used by a DUA'
   EQUALITY caseIgnoreMatch
   SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
   SINGLE-VALUE )
attributeType ( DUAConfSchemaOID:1.3 NAME 'searchTimeLimit' 
DESC 'Maximum time in seconds a DUA should allow for a
search to complete' 
EQUALITY integerMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 
SINGLE-VALUE )

attributeType ( DUAConfSchemaOID:1.4 NAME 'bindTimeLimit' 
DESC 'Maximum time in seconds a DUA should allow for the
bind operation to complete' 
EQUALITY integerMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 
SINGLE-VALUE )

attributeType ( DUAConfSchemaOID:1.5 NAME 'followReferrals' 
DESC 'Tells DUA if it should follow referrals
returned by a DSA search result' 
EQUALITY booleanMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.7 
SINGLE-VALUE )

attributeType ( DUAConfSchemaOID:1.16 NAME 'dereferenceAliases' 
DESC 'Tells DUA if it should dereference aliases'
EQUALITY booleanMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.7 
SINGLE-VALUE )

attributeType ( DUAConfSchemaOID:1.6 NAME 'authenticationMethod' 
DESC 'A keystring which identifies the type of
authentication method used to contact the DSA'
EQUALITY caseIgnoreMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 
SINGLE-VALUE )

attributeType ( DUAConfSchemaOID:1.7 NAME 'profileTTL' 
DESC 'Time to live, in seconds, before a client DUA
should re-read this configuration profile'
EQUALITY integerMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 
SINGLE-VALUE )

attributeType ( DUAConfSchemaOID:1.14 NAME 'serviceSearchDescriptor' 
DESC 'LDAP search descriptor list used by a DUA'
EQUALITY caseExactMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )

attributeType ( DUAConfSchemaOID:1.9 NAME 'attributeMap' 
DESC 'Attribute mappings used by a DUA'
attributeType ( DUAConfSchemaOID:1.10 NAME 'credentialLevel'
  DESC 'Identifies type of credentials a DUA should use when binding to the LDAP server'
  EQUALITY caseIgnoreIA5Match
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.26
  SINGLE-VALUE )

attributeType ( DUAConfSchemaOID:1.11 NAME 'objectclassMap'
  DESC 'Objectclass mappings used by a DUA'
  EQUALITY caseIgnoreIA5Match
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

attributeType ( DUAConfSchemaOID:1.12 NAME 'defaultSearchScope'
  DESC 'Default search scope used by a DUA'
  EQUALITY caseIgnoreIA5Match
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.26
  SINGLE-VALUE )

attributeType ( DUAConfSchemaOID:1.13 NAME 'serviceCredentialLevel'
  DESC 'Identifies type of credentials a DUA should use when binding to the LDAP server for a specific service'
  EQUALITY caseIgnoreIA5Match
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

attributeType ( DUAConfSchemaOID:1.15 NAME 'serviceAuthenticationMethod'
  DESC 'Authentication method used by a service of the DUA'
  EQUALITY caseIgnoreMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )

# # 4. Class Definition
#
# The objectclass below is constructed from the attributes defined in
# 3, with the exception of the cn attribute, which is defined in RFC
# 2256 [8]. cn is used to represent the name of the DUA configuration profile.
#
objectClass ( DUAConfSchemaOID:2.5 NAME 'DUAConfigProfile'
  SUP top STRUCTURAL
  DESC 'Abstraction of a base configuration for a DUA'
  MUST ( cn )
  MAY ( defaultServerList $ preferredServerList $
     defaultSearchBase $ defaultSearchScope $
     searchTimeLimit $ bindTimeLimit $
     credentialLevel $ authenticationMethod $
     objectclassMap $ serviceCredentialLevel $ serviceAuthenticationMethod $
     defaultSearchScope $ defaultSearchBase $ searchTimeLimit $ bindTimeLimit $
     credentialLevel $ authenticationMethod $
     defaultServerList $ preferredServerList $ defaultSearchBase $ defaultSearchScope $ searchTimeLimit $ bindTimeLimit $ credentialLevel $ authenticationMethod $
     defaultServerList $ preferredServerList $
     defaultSearchBase $ defaultSearchScope $ searchTimeLimit $ bindTimeLimit $ credentialLevel $ authenticationMethod $
     defaultServerList $ preferredServerList $ defaultSearchBase $ defaultSearchScope $ searchTimeLimit $ bindTimeLimit $ credentialLevel $ authenticationMethod $ )

followReferrals $ dereferenceAliases $  
serviceSearchDescriptor $ serviceCredentialLevel $  
serviceAuthenticationMethod $ objectClassMap $  
attributeMap $ profileTTL ) )

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0- 
r0/etc/openldap/schema/duaconf.schema
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# InetOrgPerson (RFC2798)
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## top-level directory of the distribution or, alternatively, at
#
# InetOrgPerson (RFC2798)
#
# Depends upon
# Definition of an X.500 Attribute Type and an Object Class to Hold
# Uniform Resource Identifiers (URIs) [RFC2079]
#(core.ldif)
#
# A Summary of the X.500(96) User Schema for use with LDAPv3 [RFC2256]
#(core.ldif)
#
# The COSINE and Internet X.500 Schema [RFC1274] (cosine.ldif)
#
# This file was automatically generated from inetorgperson.schema; see
# that file for complete references.
#
# dn: cn=inetorgperson,cn=schema,cn=config
objectClass: olcSchemaConfig
cn: inetorgperson
olcAttributeTypes: ( 2.16.840.1.113730.3.1.1 NAME 'carLicense' DESC 'RFC2798: vehicle license or registration plate' EQUALITY caseIgnoreMatch SUBSTR caseIgnoreSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )
olcAttributeTypes: ( 2.16.840.1.113730.3.1.2 NAME 'departmentNumber' DESC 'RFC2798: identifies a department within an organization' EQUALITY caseIgnoreMatch SUBSTR caseIgnoreSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )
atc SUBSTR caseIgnoreSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )
olcAttributeTypes: (2.16.840.1.113730.3.1.241 NAME 'displayName' DESC 'RFC
2798: preferred name to be used when displaying entries' EQUALITY caseIgnoreM
atch SUBSTR caseIgnoreSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 SI
NGLE-VALUE )
olcAttributeTypes: (2.16.840.1.113730.3.1.3 NAME 'employeeNumber' DESC 'RF
C2798: numerically identifies an employee within an organization' EQUALITY ca
seIgnoreMatch SUBSTR caseIgnoreSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.12
1.1.15 SINGLE-VALUE )
olcAttributeTypes: (2.16.840.1.113730.3.1.4 NAME 'employeeType' DESC 'RFC
2798: type of employment for a person' EQUALITY caseIgnoreMatch SUBSTR caseIgn
oreSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )
olcAttributeTypes: (0.9.2342.19200300.100.1.60 NAME 'jpegPhoto' DESC 'RFC
2798: a JPEG image' SYNTAX 1.3.6.1.4.1.1466.115.121.1.28 )
olcAttributeTypes: (2.16.840.1.113730.3.1.39 NAME 'preferredLanguage' DESC
'RFC2798: preferred written or spoken language for a person' EQUALITY caseIg
noreMatch SUBSTR caseIgnoreSubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.
15 SINGLE-VALUE )
olcAttributeTypes: (2.16.840.1.113730.3.1.40 NAME 'userSMIMECertificate' D
ESC 'RFC2798: PKCS#7 SignedData used to support S/MIME' SYNTAX 1.3.6.1.4.1.14
66.115.121.1.15 )
olcAttributeTypes: (2.16.840.1.113730.3.1.216 NAME 'userPKCS12' DESC 'RFC
2798: personal identity information, a PKCS #12 PFX' SYNTAX 1.3.6.1.4.1.1466.1
15.121.1.5 )
olcObjectClasses: (2.16.840.1.113730.3.2.2 NAME 'inetOrgPerson' DESC 'RFC
2798: Internet Organizational Person' SUP organizationalPerson STRUCTURAL MAY
( audio $ businessCategory $ carLicense $ departmentNumber $ displayName $ em
ployeeNumber $ employeeType $ givenName $ homePhone $ homePostalAddress $ ini
itials $ jpegPhoto $ labeledURI $ mail $ manager $ mobile $ o $ pager $ photo
$ roomNumber $ secretary $ uid $ userCertificate $ x500UniqueIdentifier $ pre
ferredLanguage $ userSMIMECertificate $ userPKCS12 ) )

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-
r0/etc/openldap/schema/inetorgperson.ldif

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# dyngroup.schema -- Dynamic Group schema
# $OpenLDAP$
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##
# Dynamic Group schema (experimental), as defined by Netscape. See
# page 70 for details on how these groups were used.
#
# A description of the objectclass definition is available here:
# http://www.redhat.com/docs/manuals/dir-server/schema/7.1/oc_dir.html#1303745
#
# depends upon:
# core.schema
#
# These definitions are considered experimental due to the lack of
# a formal specification (e.g., RFC).
#
# NOT RECOMMENDED FOR PRODUCTION USE! USE WITH CAUTION!
#
# The Netscape documentation describes this as an auxiliary objectclass
# but their implementations have always defined it as a structural class.
# The sloppiness here is because Netscape-derived servers don't actually
# implement the X.500 data model, and they don't honor the distinction
# between structural and auxiliary classes. This fact is noted here:
# http://forum.java.sun.com/thread.jspa?threadID=5016864&messageID=9034636
#
# In accordance with other existing implementations, we define it as a
# structural class.
#
# Our definition of memberURL also does not match theirs but again
# their published definition and what works in practice do not agree.
# In other words, the Netscape definitions are broken and interoperability
# is not guaranteed.
#
# Also see the new DynGroup proposed spec at
# http://tools.ietf.org/html/draft-haripriya-dynamicgroup-02

objectIdentifier NetscapeRoot 2.16.840.1.113730

objectIdentifier NetscapeLDAP NetscapeRoot:3
objectIdentifier NetscapeLDAPattributeType NetscapeLDAP:1
objectIdentifier NetscapeLDAPobjectClass NetscapeLDAP:2

objectIdentifier OpenLDAPExp111.3.6.1.4.1.4203.666.11
objectIdentifier DynGroupBaseOpenLDAPExp11:8
objectIdentifier DynGroupAttrDynGroupBase:1
objectIdentifier DynGroupOCDynGroupBase:2
attributetype ( NetscapeLDAPattributeType:198
NAME 'memberURL'
DESC 'Identifies an URL associated with each member of a group. Any type of labeled URL can be used.'
SUP labeledURI)

attributetype ( DynGroupAttr:1
NAME 'dgIdentity'
DESC 'Identity to use when processing the memberURL'
SUP distinguishedName SINGLE-VALUE)

attributeType ( DynGroupAttr:2
NAME 'dgAuthz'
DESC 'Optional authorization rules that determine who is allowed to assume the dgIdentity'
EQUALITY authzMatch
SYNTAX 1.3.6.1.4.1.4203.666.2.7
X-ORDERED 'VALUES'
)

# Just for testing. The actual memberOf is an operational attribute
attributeType ( DynGroupAttr:3
NAME 'dgMemberOf'
DESC 'Group that the entry belongs to'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
EQUALITY distinguishedNameMatch)

objectClass ( NetscapeLDAPobjectClass:33
NAME 'groupOfURLs'
SUP top STRUCTURAL
MUST cn
MAY ( memberURL $ businessCategory $ description $ o $ ou $ owner $ seeAlso )

# The Haripriya dyngroup schema still needs a lot of work.
# We're just adding support for the dgIdentity attribute for now...
objectClass ( DynGroupOC:1
NAME 'dgIdentityAux'
SUP top AUXILIARY
MAY ( dgIdentity $ dgAuthz )

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/dyngroup.schema
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# Definitions from RFC2307 (Experimental)
# An Approach for Using LDAP as a Network Information Service

# Depends upon core.schema and cosine.schema

# Note: The definitions in RFC2307 are given in syntaxes closely related to those in RFC2252, however, some liberties are taken that are not supported by RFC2252. This file has been written following RFC2252 strictly.

# OID Base is iso(1) org(3) dod(6) internet(1) directory(1) nisSchema(1).
# i.e. nisSchema in RFC2307 is 1.3.6.1.1.1
#
# Syntaxes are under 1.3.6.1.1.1.0 (two new syntaxes are defined)
# validators for these syntaxes are incomplete, they only implement printable string validation (which is good as the common use of these syntaxes violates the specification).
# Attribute types are under 1.3.6.1.1.1.1
# Object classes are under 1.3.6.1.1.1.2

# Attribute Type Definitions

# builtin
#attributetype ( 1.3.6.1.1.1.1.0 NAME 'uidNumber'
#DESC 'An integer uniquely identifying a user in an administrative domain'
#EQUALITY integerMatch
#SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

# builtin
#attributetype ( 1.3.6.1.1.1.1.1 NAME 'gidNumber'
#DESC 'An integer uniquely identifying a group in an administrative domain'
#EQUALITY integerMatch
#SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

attributetype ( 1.3.6.1.1.1.1.2 NAME 'gecos'
DESC 'The GECOS field; the common name'
EQUALITY caseIgnoreIA5Match
SUBSTR caseIgnoreIA5SubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 SINGLE-VALUE )
attributetype (1.3.6.1.1.1.1.3 NAME 'homeDirectory'
DESC 'The absolute path to the home directory'
EQUALITY caseExactIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 SINGLE-VALUE )

attributetype (1.3.6.1.1.1.1.4 NAME 'loginShell'
DESC 'The path to the login shell'
EQUALITY caseExactIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 SINGLE-VALUE )

attributetype (1.3.6.1.1.1.1.5 NAME 'shadowLastChange'
EQUALITY integerMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

attributetype (1.3.6.1.1.1.1.6 NAME 'shadowMin'
EQUALITY integerMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

attributetype (1.3.6.1.1.1.1.7 NAME 'shadowMax'
EQUALITY integerMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

attributetype (1.3.6.1.1.1.1.8 NAME 'shadowWarning'
EQUALITY integerMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

attributetype (1.3.6.1.1.1.1.9 NAME 'shadowInactive'
EQUALITY integerMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

attributetype (1.3.6.1.1.1.1.10 NAME 'shadowExpire'
EQUALITY integerMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

attributetype (1.3.6.1.1.1.1.11 NAME 'shadowFlag'
EQUALITY integerMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

attributetype (1.3.6.1.1.1.1.12 NAME 'memberUid'
EQUALITY caseExactIA5Match
SUBSTR caseExactIA5SubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

attributetype (1.3.6.1.1.1.1.13 NAME 'memberNisNetgroup'
EQUALITY caseExactIA5Match
SUBSTR caseExactIA5SubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
attributetype ( 1.3.6.1.1.1.14 NAME 'nisNetgroupTriple'
DESC 'Netgroup triple'
SYNTAX 1.3.6.1.1.1.0.0 )

attributetype ( 1.3.6.1.1.1.15 NAME 'ipServicePort'
EQUALITY integerMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

attributetype ( 1.3.6.1.1.1.16 NAME 'ipServiceProtocol'
SUP name )

attributetype ( 1.3.6.1.1.1.17 NAME 'ipProtocolNumber'
EQUALITY integerMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

attributetype ( 1.3.6.1.1.1.18 NAME 'oncRpcNumber'
EQUALITY integerMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

attributetype ( 1.3.6.1.1.1.19 NAME 'ipHostNumber'
DESC 'IP address'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{128} )

attributetype ( 1.3.6.1.1.1.20 NAME 'ipNetworkNumber'
DESC 'IP network'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{128} SINGLE-VALUE )

attributetype ( 1.3.6.1.1.1.21 NAME 'ipNetmaskNumber'
DESC 'IP netmask'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{128} SINGLE-VALUE )

attributetype ( 1.3.6.1.1.1.22 NAME 'macAddress'
DESC 'MAC address'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{128} )

attributetype ( 1.3.6.1.1.1.23 NAME 'bootParameter'
DESC 'rpc.bootparamd parameter'
SYNTAX 1.3.6.1.1.1.0.1 )

attributetype ( 1.3.6.1.1.1.24 NAME 'bootFile'
DESC 'Boot image name'
EQUALITY caseExactIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
attributetype ( 1.3.6.1.1.1.1.26 NAME 'nisMapName'
SUP name )

attributetype ( 1.3.6.1.1.1.1.27 NAME 'nisMapEntry'
EQUALITY caseExactIA5Match
SUBSTR caseExactIA5SubstringsMatch
SYNTAX 1.3.6.1.4.1.1.15.121.1.26{1024} SINGLE-VALUE )

# Object Class Definitions

objectclass ( 1.3.6.1.1.1.2.0 NAME 'posixAccount'
DESC 'Abstraction of an account with POSIX attributes'
SUP top AUXILIARY
MUST ( cn $ uid $ uidNumber $ gidNumber $ homeDirectory )
MAY ( userPassword $ loginShell $ gecos $ description ) )

objectclass ( 1.3.6.1.1.1.2.1 NAME 'shadowAccount'
DESC 'Additional attributes for shadow passwords'
SUP top AUXILIARY
MUST uid
MAY ( userPassword $ shadowLastChange $ shadowMin $ shadowMax $ shadowWarning $ shadowInactive $ shadowExpire $ shadowFlag $ description ) )

objectclass ( 1.3.6.1.1.1.2.2 NAME 'posixGroup'
DESC 'Abstraction of a group of accounts'
SUP top STRUCTURAL
MUST ( cn $ gidNumber )
MAY ( userPassword $ memberUid $ description ) )

objectclass ( 1.3.6.1.1.1.2.3 NAME 'ipService'
DESC 'Abstraction an Internet Protocol service'
SUP top STRUCTURAL
MUST ( cn $ ipServicePort $ ipServiceProtocol )
MAY ( description ) )

objectclass ( 1.3.6.1.1.1.2.4 NAME 'ipProtocol'
DESC 'Abstraction of an IP protocol'
SUP top STRUCTURAL
MUST ( cn $ ipProtocolNumber $ description )
MAY description )

objectclass ( 1.3.6.1.1.1.2.5 NAME 'oncRpc'
DESC 'Abstraction of an ONC/RPC binding'
SUP top STRUCTURAL
MUST ( cn $ oncRpcNumber $ description )
MAY description )
objectclass ( 1.3.6.1.1.2.6 NAME 'ipHost'
DESC 'Abstraction of a host, an IP device'
SUP top AUXILIARY
MUST ( cn $ ipHostNumber )
MAY ( l $ description $ manager )
)

objectclass ( 1.3.6.1.1.2.7 NAME 'ipNetwork'
DESC 'Abstraction of an IP network'
SUP top STRUCTURAL
MUST ( cn $ ipNetworkNumber )
MAY ( ipNetmaskNumber $ l $ description $ manager )
)

objectclass ( 1.3.6.1.1.2.8 NAME 'nisNetgroup'
DESC 'Abstraction of a netgroup'
SUP top STRUCTURAL
MUST cn
MAY ( nisNetgroupTriple $ memberNisNetgroup $ description )
)

objectclass ( 1.3.6.1.1.2.9 NAME 'nisMap'
DESC 'A generic abstraction of a NIS map'
SUP top STRUCTURAL
MUST nisMapName
MAY description
)

objectclass ( 1.3.6.1.1.2.10 NAME 'nisObject'
DESC 'An entry in a NIS map'
SUP top STRUCTURAL
MUST ( cn $ nisMapEntry $ nisMapName )
MAY description
)

objectclass ( 1.3.6.1.1.2.11 NAME 'ieee802Device'
DESC 'A device with a MAC address'
SUP top AUXILIARY
MAY macAddress
)

objectclass ( 1.3.6.1.1.2.12 NAME 'bootableDevice'
DESC 'A device with boot parameters'
SUP top AUXILIARY
MAY ( bootFile $ bootParameter )
)

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/nis.schema
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# These definitions are from Sun DSEE 7's cn=schema subentry.
# None of the attributes had matching rules defined; we've
# inserted usable ones as needed.

# Some of these attributes are defined with NO-USER-MODIFICATION,
# but slapd won't load such definitions from user-modifiable schema
# files. So that designation has been removed, and commented accordingly.

objectidentifier NetscapeRoot 2.16.840.1.113730
objectidentifier NetscapeDS NetscapeRoot:3
objectidentifier NSDSatNetscapeDS:1
objectidentifier NSDSoc NetscapeDS:2
objectidentifier SunRoot 1.3.6.1.4.1.42
objectidentifier SunDS SunRoot:2.27

attributetype ( NSDSat:5
NAME 'changeNumber'
DESC 'Changelog attribute type'
EQUALITY integerMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27
X-ORIGIN 'Changelog Internet Draft'
)

attributetype ( NSDSat:6
NAME 'targetDn'
DESC 'Changelog attribute type'
EQUALITY distinguishedNameMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.12
X-ORIGIN 'Changelog Internet Draft'
)

attributetype ( NSDSat:7
NAME 'changeType'
DESC 'Changelog attribute type'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
X-ORIGIN 'Changelog Internet Draft'
)
They claim Binary syntax but it's really octetString

attributeType ( NSDSat:8
  NAME 'changes'
  DESC 'Changelog attribute type'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.5
  X-ORIGIN 'Changelog Internet Draft' )

attributeType ( NSDSat:9
  NAME 'newRdn'
  DESC 'Changelog attribute type'
  EQUALITY distinguishedNameMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.12
  X-ORIGIN 'Changelog Internet Draft' )

attributeType ( NSDSat:10
  NAME 'deleteOldRdn'
  DESC 'Changelog attribute type'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.7
  X-ORIGIN 'Changelog Internet Draft' )

attributeType ( NSDSat:11
  NAME 'newSuperior'
  DESC 'Changelog attribute type'
  EQUALITY distinguishedNameMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.12
  X-ORIGIN 'Changelog Internet Draft' )

# should be generalizedTime, but they used directoryString instead...

attributeType ( NSDSat:77
  NAME 'changeTime'
  DESC 'Sun ONE defined attribute type'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
  X-ORIGIN 'Sun ONE Directory Server' )

# These are UUIDs, but (of course) hyphenated differently than ours.

# NO-USER-MODIFICATION
attributeType ( NSDSat:542
  NAME 'nsUniqueId'
  DESC 'Sun ONE defined attribute type'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
  SINGLE-VALUE
  X-ORIGIN 'Sun ONE Directory Server' )

# NO-USER-MODIFICATION
attributeType ( SunDS:9.1.596
  NAME 'targetUniqueId'
  DESC 'RetroChangelog attribute type'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
SINGLE-VALUE
X-ORIGIN 'Sun Directory Server'

objectclass (NSDsoc:1
NAME 'changeLogEntry'
DESC 'LDAP changelog objectclass'
SUP top STRUCTURAL
MUST (targetDn $ changeTime $ changeNumber $ changeType)
MAY (changes $newRdn $deleteOldRdn $newSuperior)
X-ORIGIN 'Changelog Internet Draft'

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-
r0/etc/openldap/schema/dsee.schema

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# These definitions are from Microsoft's Active Directory.
# They were first gathered using the subschemaSubentry object of
# Windows 2000 Advanced Server Release Candidate 2.
# Additional definitions were gathered from Windows Server 2012
# and adjusted to ease compatibility issues.

# These object classes and attributes are rooted at OID
# 1.2.840.113556.1, Microsoft's Directory Enabled networks
# OID. OID Macros are used throughout, to make mapping of
# incompatible OIDs easier.

# A number of custom syntaxes have been replaced with generic
# syntaxes. The original syntax OIDs are commented out below.

# Many of these attributes are defined with NO-USER-MODIFICATION,
# but slapd won't load such definitions from user-modifiable schema files. So that designation has been removed, and commented accordingly.

# Only the subset of Windows 2012 attributes needed to make the user and group objectclasses work has been added to the previously retrieved definitions.

# If an AD definition clashes with existing standardized schema, the AD definition has been commented out.

objectidentifier MicrosoftRoot 1.2.840.113556
objectidentifier MSAD MicrosoftRoot:1
objectidentifier MSADat2 MSAD:2
objectidentifier MSADat4 MSAD:4
objectidentifier MSADat6 MSAD:6
objectidentifier MSADoc3 MSAD:3
objectidentifier MSADoc5 MSAD:5

# objectidentifier MSADdnWithOctetString MSADat4:903
# objectidentifier MSADdnWithString MSADat4:904
# objectidentifier MSADtelex MSADat4:905
# objectidentifier MSADlargeInteger MSADat4:906
# objectidentifier MSADcis MSADat4:907
# objectidentifier MSADsecDesc MSADat4:907
objectidentifier MSADdnWithOctetString 1.3.6.1.4.1.1466.115.121.1.40
objectidentifier MSADdnWithString 1.3.6.1.4.1.1466.115.121.1.40
objectidentifier MSADtelex 1.3.6.1.4.1.1466.115.121.1.44
objectidentifier MSADlargeInteger 1.3.6.1.4.1.1466.115.121.1.27
objectidentifier MSADcis 1.3.6.1.4.1.1466.115.121.1.44
objectidentifier MSADsecDesc 1.3.6.1.4.1.1466.115.121.1.40

# NO-USER-MODIFICATION
attributetype ( MSADat2:104
NAME 'ownerBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)

# NO-USER-MODIFICATION
attributetype ( MSADat4:1424
NAME 'msCOM-PartitionSetLink'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)

# NO-USER-MODIFICATION
attributetype ( MSADat4:1425
NAME 'msCOM-UserLink'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)

# NO-USER-MODIFICATION
attributetype ( MSADat4:1669
NAME 'msDS-Approx-Immed-Subordinates'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1704
NAME 'msDS-NCReplCursors'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1705
NAME 'msDS-NCReplInboundNeighbors'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1706
NAME 'msDS-NCReplOutboundNeighbors'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1707
NAME 'msDS-ReplAttributeMetaData'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1708
NAME 'msDS-ReplValueMetaData'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1793
NAME 'msDS-NonMembers'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1794
NAME 'msDS-NonMembersBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:1806
NAME 'msDS-MembersForAzRole'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1807
NAME 'msDS-MembersForAzRoleBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:1808 NAME 'msDS-OperationsForAzTask' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
# NO-USER-MODIFICATION
attributetype ( MSADat4:1809 NAME 'msDS-OperationsForAzTaskBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
attributetype ( MSADat4:1810 NAME 'msDS-TasksForAzTask' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
# NO-USER-MODIFICATION
attributetype ( MSADat4:1811 NAME 'msDS-TasksForAzTaskBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
attributetype ( MSADat4:1812 NAME 'msDS-OperationsForAzRole' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1813 NAME 'msDS-OperationsForAzRoleBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
attributetype ( MSADat4:1814 NAME 'msDS-TasksForAzRole' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1815 NAME 'msDS-TasksForAzRoleBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1930 NAME 'msDS-RevealedDSAs' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1931 NAME 'msDS-KrbTgtLinkBl' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1932 NAME 'msDS-IsFullReplicaFor' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1933 NAME 'msDS-IsDomainFor' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1934 NAME 'msDS-IsPartialReplicaFor' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1957 NAME 'msDS-AuthenticatedToAccountlist' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
attributeType ( MSADat4:1958 NAME 'msDS-AuthenticatedAtDC' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1968 NAME 'msDS-NC-RO-Replica-Locations-BL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:2021 NAME 'msDS-PSOApplied' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:2024 NAME 'msDS-NcType' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
# NO-USER-MODIFICATION
attributetype ( MSADat4:2052 NAME 'msDS-OIDToGroupLinkBl' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
attributetype ( MSADat4:2057 NAME 'msDS-HostServiceAccountBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:2058 NAME 'isRecycled' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )
attributetype ( MSADat4:2059 NAME 'msDS-LocalEffectiveDeletionTime' SYNTAX '1.3.6.1.4.1.1466.115.121.1.24' SINGLE-VALUE )

attributetype ( MSADat4:2060 NAME 'msDS-LocalEffectiveRecycleTime' SYNTAX '1.3.6.1.4.1.1466.115.121.1.24' SINGLE-VALUE )

attributetype ( MSADat4:2067 NAME 'msDS-LastKnownRDN' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )

attributetype ( MSADat4:2069 NAME 'msDS-EnabledFeatureBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:2102 NAME 'msDS-ClaimSharesPossibleValuesWithBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:2104 NAME 'msDS-MembersOfResourcePropertyListBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:2168 NAME 'msDS-IsPrimaryComputerFor' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:2188 NAME 'msDS-ValueTypeReferenceBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:2193 NAME 'msDS-TDOIngressBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:2194 NAME 'msDS-TDOEgressBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:2203 NAME 'msDS-parentdistname' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )

attributetype ( MSADat4:2235 NAME 'msDS-ReplValueMetaDataExt' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:2236 NAME 'msds-memberOfTransitive' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:2238 NAME 'msds-memberTransitive' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat6:18.1.347 NAME 'msSFU30PosixMemberOf' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat6:13.3.102 NAME 'msDFSR-MemberReferenceBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat6:13.3.103 NAME 'msDFSR-ComputerReferenceBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:1792 NAME 'msDS-AzLDAPQuery' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )

attributetype ( MSADat4:1801 NAME 'msDS-AzBizRule' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )

attributetype ( MSADat4:1802 NAME 'msDS-AzBizRuleLanguage' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )

attributetype ( MSADat4:1803 NAME 'msDS-AzLastImportedBizRulePath' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )

attributetype ( MSADat4:1819 NAME 'msDS-AzApplicationData' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1949 NAME 'msDS-AzObjectGuid' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
attributetype ( MSADat4:1950 NAME 'msDS-AzGenericData' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype ( MSADat4:2167 NAME 'msDS-PrimaryComputer' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
attributetype ( MSADat6:18.1.309 NAME 'msSFU30Name' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' SINGLE-VALUE )
attributetype ( MSADat6:18.1.339 NAME 'msSFU30NisDomain' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' SINGLE-VALUE )
attributetype ( MSADat6:18.1.346 NAME 'msSFU30PosixMember' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
attributetype ( MSADat4:1426 NAME 'msCOM-UserPartitionSetLink' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
attributetype ( MSADat4:1441 NAME 'msDS-Cached-Membership' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
attributetype ( MSADat4:1442 NAME 'msDS-Cached-Membership-Time-Stamp' SYNTAX 'MSADlargeInteger' SINGLE-VALUE )
attributetype ( MSADat4:1443 NAME 'msDS-Site-Affinity' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
attributetype ( MSADat4:1460 NAME 'msDS-User-Account-Control-Computed' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype ( MSADat4:1696 NAME 'lastLogonTimestamp' SYNTAX 'MSADlargeInteger' SINGLE-VALUE )
attributetype ( MSADat4:1785 NAME 'msIIS-FTPRoot' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype ( MSADat4:1786 NAME 'msIIS-FTPDir' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype ( MSADat4:1843 NAME 'msDRM-IdentityCertificate' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
attributetype ( MSADat4:1879 NAME 'msDS-SourceObjectDN' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype ( MSADat4:1892 NAME 'msPKIRoamingTimeStamp' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
attributetype ( MSADat4:1893 NAME 'msPKIDPAPIMasterKeys' SYNTAX 'MSADdnWithOctetString' )
attributetype ( MSADat4:1894 NAME 'msPKIAccountCredentials' SYNTAX 'MSADdnWithOctetString' )
attributetype ( MSADat4:1913 NAME 'msRADIUS-FramedInterfaceId' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' SINGLE-VALUE )
attributetype ( MSADat4:1914 NAME 'msRADIUS-SavedFramedInterfaceId' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' SINGLE-VALUE )
attributetype ( MSADat4:1915 NAME 'msRADIUS-SavedFramedIpv6Prefix' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' SINGLE-VALUE )
attributetype ( MSADat4:1916 NAME 'msRADIUS-SavedFramedIpv6Prefix' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' SINGLE-VALUE )
attributetype ( MSADat4:1917 NAME 'msRADIUS-SavedFramedIpv6Route' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )
attributetype ( MSADat4:1918 NAME 'msRADIUS-SavedFramedIpv6Route' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1929 NAME 'msDS-SecondaryKrbTgtNumber' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype ( MSADat4:1963 NAME 'msDS-SupportedEncryptionTypes' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype ( MSADat4:1970 NAME 'msDS-LastSuccessfulInteractiveLogonTime' SYNTAX 'MSADlargeInteger' SINGLE-VALUE )
attributetype ( MSADat4:1971 NAME 'msDS-LastFailedInteractiveLogonTime' SYNTAX 'MSADlargeInteger' SINGLE-VALUE )
attributetype ( MSADat4:1972 NAME 'msDS-FailedInteractiveLogonCount' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype ( MSADat4:1973 NAME 'msDS-FailedInteractiveLogonCountAtLastSuccessfulLogon' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype ( MSADat4:1976 NAME 'msTSProfilePath' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype ( MSADat4:1977 NAME 'msTSHomeDirectory' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype ( MSADat4:1978 NAME 'msTSHomeDrive' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype ( MSADat4:1979 NAME 'msTSAllowLogon' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )
attributetype ( MSADat4:1980 NAME 'msTSRemoteControl' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype ( MSADat4:1981 NAME 'msTSMaxDisconnectionTime' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype ( MSADat4:1982 NAME 'msTSMaxConnectionTime' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype ( MSADat4:1983 NAME 'msTSMaxIdleTime' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype ( MSADat4:1984 NAME 'msTSReconnectionAction' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )
attributetype ( MSADat4:1985 NAME 'msTSBrokenConnectionAction' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )
attributetype ( MSADat4:1986 NAME 'msTSConnectClientDrives' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )
attributetype ( MSADat4:1987 NAME 'msTSConnectPrinterDrives' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )
attributetype ( MSADat4:1988 NAME 'msTSDefaultToMainPrinter' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )
attributetype ( MSADat4:1989 NAME 'msTSWorkDirectory' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype ( MSADat4:1990 NAME 'msTSInitialProgram' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype ( MSADat4:1991 NAME 'msTSProperty01' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
attributetype ( MSADat4:1992 NAME 'msTSProperty02' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
attributetype ( MSADat4:1993 NAME 'msTSExpireDate' SYNTAX '1.3.6.1.4.1.1466.115.121.1.24' SINGLE-VALUE )
attributetype ( MSADat4:1994 NAME 'msTSLicenseVersion' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype (MSADat4:1995 NAME 'msTSMangingLS' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype (MSADat4:1996 NAME 'msDS-UserPasswordExpireTimeComputed' SYNTAX 'MSADlargeInteger' SINGLE-VALUE )
attributetype (MSADat4:2008 NAME 'msTSMangingLS4' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype (MSADat4:2005 NAME 'msTSMangingLS3' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype (MSADat4:2002 NAME 'msTSMangingLS2' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype (MSADat4:2006 NAME 'msTSExpireDate4' SYNTAX '1.3.6.1.4.1.1466.115.121.1.24' SINGLE-VALUE )
attributetype (MSADat4:2003 NAME 'msTSExpireDate3' SYNTAX '1.3.6.1.4.1.1466.115.121.1.24' SINGLE-VALUE )
attributetype (MSADat4:2000 NAME 'msTSExpireDate2' SYNTAX '1.3.6.1.4.1.1466.115.121.1.24' SINGLE-VALUE )
attributetype (MSADat4:2004 NAME 'msTLSLicenseVersion3' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype (MSADat4:2001 NAME 'msTLSLicenseVersion2' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype (MSADat4:2007 NAME 'msTLSLicenseVersion4' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype (MSADat4:2009 NAME 'msTLSProperty01' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
attributetype (MSADat4:2010 NAME 'msTLSProperty02' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
# NO-USER-MODIFICATION
attributetype (MSADat4:2022 NAME 'msDS-ResultantPSO' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
attributetype (MSADat4:2050 NAME 'msPKI-CredentialRoamingTokens' SYNTAX 'MSADdnWithOctetString' )
attributetype (MSADat4:2073 NAME 'msTSPrimaryDesktop' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
attributetype (MSADat4:2075 NAME 'msTSSecondaryDesktops' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
attributetype (MSADat4:2276 NAME 'msDS-SyncServerUrl' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
attributetype (MSADat4:2285 NAME 'msDS-AssignedAuthNPolicySilo' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
# NO-USER-MODIFICATION
attributetype (MSADat4:2288 NAME 'msDS-AuthNPolicySiloMembersBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
attributetype (MSADat4:2295 NAME 'msDS-AssignedAuthNPolicy' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )

## NO-USER-MODIFICATION
attributetype (MSADat4:1459 NAME 'msDS-Behavior-Version' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype (MSADat4:1788 NAME 'msDS-PerUserTrustQuota' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype (MSADat4:1789 NAME 'msDS-AllUsersTrustQuota' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype (MSADat4:1790 NAME 'msDS-PerUserTrustTombstonesQuota' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1717 NAME 'msDS-AdditionalDnsHostName' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
## NO-USER-MODIFICATION
attributetype ( MSADat4:1718 NAME 'msDS-AdditionalSamAccountName' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1783 NAME 'msDS-ExecuteScriptPassword' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
attributetype ( MSADat4:1923 NAME 'msDS-KrbTgtLink' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1924 NAME 'msDS-RevealedUsers' SYNTAX 'MSADdnWithOctetString' )
attributetype ( MSADat4:1926 NAME 'msDS-NeverRevealGroup' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
attributetype ( MSADat4:1928 NAME 'msDS-RevealOnDemandGroup' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1940 NAME 'msDS-RevealedList' SYNTAX 'MSADdnWithString' )
attributetype ( MSADat4:1959 NAME 'msDS-isGC' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )
attributetype ( MSADat4:1960 NAME 'msDS-isRODC' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )
attributetype ( MSADat4:1961 NAME 'msDS-SiteName' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
# NO-USER-MODIFICATION
attributetype ( MSADat4:1962 NAME 'msDS-PromotionSettings' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype ( MSADat4:1966 NAME 'msTPM-OwnerInformation' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype ( MSADat4:2025 NAME 'msDS-IsUserCachableAtRodc' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype ( MSADat4:2056 NAME 'msDS-HostServiceAccount' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
attributetype ( MSADat4:2070 NAME 'msTSEndpointData' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype ( MSADat4:2071 NAME 'msTSEndpointType' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype ( MSADat4:2072 NAME 'msTSEndpointPlugin' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
# NO-USER-MODIFICATION
attributetype ( MSADat4:2074 NAME 'msTSPrimaryDesktopBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
attributetype ( MSADat4:2078 NAME 'msTSSecondaryDesktopBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
attributetype ( MSADat4:2109 NAME 'msTPM-TpmInformationForComputer' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
# NO-USER-MODIFICATION
attributetype ( MSADat4:2166 NAME 'msDS-GenerationId' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
attributetype ( MSADat4:2180 NAME 'msImaging-ThumbprintHash' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
attributetype ( MSADat4:2181 NAME 'msImaging-HashAlgorithm' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
attributetype ( MSADat4:2234 NAME 'netbootDUID' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
attributetype ( MSADat6:18.1.323 NAME 'msSFU30Aliases' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )
#attributetype ( 1.3.6.1.1.1.1.26 NAME 'nisMapName' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' SINGLE-VALUE )

attributetype ( MSADat4:856
NAME 'netbootNewMachineOU'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:13
NAME 'builtinCreationTime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:1335
NAME 'pKIEnrollmentAccess'
SYNTAX 'MSADcis' )

attributetype ( MSADat4:1333
NAME 'pKIEnterKeyUsage'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1123
NAME 'msNPCalledStationID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )

attributetype ( MSADat4:539
NAME 'initialAuthIncoming'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:370
NAME 'objectClassCategory'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:41
NAME 'generatedConnection'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.17'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:911
NAME 'allowedChildClasses'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'

attributetype ( MSADat4:68
NAME 'machineArchitecture'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'

attributetype ( MSADat4:767
NAME 'aCSMaxPeakBandwidth'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:72
NAME 'marshalledInterface'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'

# NO-USER-MODIFICATION
attributetype ( MSADat4:368
NAME 'rIDManagerReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:770
NAME 'aCSEnableACSService'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:1237
NAME 'mSMQRoutingService'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:1405
NAME 'mS-SQL-AllowQueuedUpdatingSubscription'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:648
NAME 'primaryTelexNumber'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:8
NAME 'userAccountControl'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:563
NAME 'shellPropertyPages'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

# NO-USER-MODIFICATION
attributetype ( MSADat4:4
NAME 'replUpToDateVector'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:484
NAME 'fRSDirectoryFilter'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:230
NAME 'printSeparatorFile'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1329
NAME 'pKIMaxIssuingDepth'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1307
NAME 'accountNameHistory'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1386
NAME 'mS-SQL-GPSLongitude'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:562
NAME 'adminPropertyPages'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:121
NAME 'securityIdentifier'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:166
NAME 'groupMembershipSAM'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:659
NAME 'serviceDNSNameType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:585
NAME 'meetingIsEncrypted'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1400
NAME 'mS-SQL-Applications'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)

attributetype ( MSADat4:330
NAME 'lastUpdateSequence'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:50
NAME 'lastContentIndexed'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:567
NAME 'meetingDescription'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

#attributetype ( MSADat4:880
#NAME 'fRSTimeLastCommand'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.53'
#SINGLE-VALUE )

attributetype ( MSADat4:83
NAME 'monikerDisplayName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)

attributetype ( MSADat4:321
NAME 'requiredCategories'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
)

attributetype ( MSADat4:813
NAME 'upgradeProductCode'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
)

attributetype ( MSADat4:774
NAME 'aCSMaxNoOfLogFiles'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'

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attributetype ( MSADat4:1370
NAME 'mS-SQL-CharacterSet'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:578
NAME 'meetingContactInfo'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1397
NAME 'mS-SQL-CreationDate'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:32
NAME 'domainPolicyObject'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:703
NAME 'dhcpObjDescription'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:573
NAME 'meetingApplication'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:518
NAME 'defaultHidingValue'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:875
NAME 'fRSMemberReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:701
NAME 'dhcpIdentification'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:135
NAME 'trustAuthOutgoing'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:197
NAME 'systemMustContain'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1412
NAME 'primaryGroupToken'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:118
NAME 'rpcNsProfileEntry'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:129
NAME 'trustAuthIncoming'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:1225
NAME 'mSMQPrevSiteGates'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:607
NAME 'queryPolicyObject'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:712
NAME 'optionDescription'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1314
NAME 'aCSMaximumSDUSize'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:530
NAME 'nonSecurityMember'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:31
NAME 'fRSReplicaSetType'

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SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:763
NAME 'aCSTotalNoOfFlows'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:915
NAME 'possibleInferiors'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )

attributetype ( MSADat4:851
NAME 'netbootMaxClients'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1385
NAME 'mS-SQL-GPSLatitude'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:765
NAME 'aCSPermissionBits'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:926
NAME 'mSMQTransactional'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:1390
NAME 'mS-SQL-Description'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:913
NAME 'allowedAttributes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )

attributetype ( MSADat4:491
NAME 'fRSFaultCondition'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
attributetype ( MSADat2:54
NAME 'tombstoneLifetime'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:809
NAME 'remoteStorageGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:644
NAME 'showInAddressBook'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:213
NAME 'defaultClassStore'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:577
NAME 'meetingOriginator'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:656
NAME 'userPrincipalName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1316
NAME 'aCSMinimumLatency'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

#attributetype ( MSADat2:617
#NAME 'homePostalAddress'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:638
NAME 'isPrivilegeHolder'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)

attributetype ( MSADat4:533
NAME 'fRSReplicaSetGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
# NO-USER-MODIFICATION
attributetype ( MSADat4:371
NAME 'rIDAllocationPool'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:1327
NAME 'pKIDefaultKeySpec'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:537
NAME 'dynamicLDAPServer'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:516
NAME 'serverReferenceBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:500
NAME 'fRSServiceCommand'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1304
NAME 'sDRightsEffective'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1249
NAME 'proxiedObjectName'
SYNTAX 'MSADdnWithOctetString'
SINGLE-VALUE )

attributetype ( MSADat4:586
NAME 'meetingRecurrence'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:251
NAME 'cOMTreatAsClassId'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
attributetype ( MSADat4:1245
NAME 'globalAddressList'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)

# NO-USER-MODIFICATION
attributetype ( MSADat4:908
NAME 'extendedClassInfo'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)

attributetype ( MSADat4:459
NAME 'machineWidePolicy'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
)

attributetype ( MSADat4:356
NAME 'foreignIdentifier'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1242
NAME 'dNReferenceUpdate'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)

attributetype ( MSADat4:134
NAME 'trustPosixOffset'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:36
NAME 'enabledConnection'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:627
NAME 'ipsecNFAReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)

attributetype ( MSADat4:86
NAME 'userWorkstations'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat2:301
NAME 'garbageColllPeriod'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:933
NAME 'mSMQComputerType'
SYNTAX 'MSADtelex'
SINGLE-VALUE )

attributetype ( MSADat4:65
NAME 'logonWorkstation'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:921
NAME 'mSMQJournalQuota'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:108
NAME 'remoteSourceType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:95
NAME 'pwdHistoryLength'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:920
NAME 'mSMQBasePriority'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:196
NAME 'systemMayContain'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
)

attributetype ( MSADat4:1407
NAME 'mS-SQL-ThirdParty'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:1243
NAME 'mSMQQueueNameExt'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:485
NAME 'IRSUplDateTimeout'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
attributetype ( MSADat4:1244
NAME 'addressBookRoots'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:878
NAME 'fRSPrimaryMember'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

#attributetype ( MSADat4:587
#NAME 'meetingStartTime'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.53' )

attributetype ( MSADat4:1310
NAME 'mSMQSiteGatesMig'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:709
NAME 'dhcpReservations'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.44' )

attributetype ( MSADat4:614
NAME 'adminContextMenu'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1332
NAME 'pKIOverlapPeriod'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:142
NAME 'winsockAddresses'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:923
NAME 'mSMQAuthenticate'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:1344
NAME 'dSUIMaximum'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:848
NAME 'appSchemaVersion'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
attributetype ( MSADat4:123
NAME 'serviceClassInfo'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:769
NAME 'aCSEventLogLevel'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:751
NAME 'userSharedFolder'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:421
NAME 'domainWidePolicy'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

# NO-USER-MODIFICATION
attributetype ( MSADat4:669
NAME 'rIDSetReferences'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:815
NAME 'canUpgradeScript'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:610
NAME 'classDisplayName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat2:226
NAME 'adminDescription'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:67
NAME 'lSAModifiedCount'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:509
NAME 'serviceClassName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:56
NAME 'localPolicyFlags'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:115
NAME 'rpcNsInterfaceID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat2:194
NAME 'adminDisplayName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:753
NAME 'nameServiceFlags'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:589
NAME 'meetingBandwidth'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' )

# NO-USER-MODIFICATION
attributetype ( MSADat4:755
NAME 'domainIdentifier'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:370
NAME 'rIDAvailablePool'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:655
NAME 'legacyExchangeDN'
SYNTAX 'MSADtelex'
SINGLE-VALUE )

attributetype ( MSADat4:470
NAME 'trustAttributes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:535
NAME 'IRSRootSecurity'
SYNTAX 'MSADcis'
SINGLE-VALUE )
attributetype ( MSADat4:532
NAME 'superiorDNSRoot'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:278
NAME 'printMaxYExtent'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:277
NAME 'printMaxXExtent'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:280
NAME 'printMinYExtent'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:279
NAME 'printMinXExtent'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:32
NAME 'attributeSyntax'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
SINGLE-VALUE )

attributetype ( MSADat4:247
NAME 'printAttributes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:152
NAME 'groupAttributes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:816
NAME 'fileExtPriority'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:930
NAME 'mSMQServiceType'

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SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:363
NAME 'operatingSystem'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1371
NAME 'mS-SQL-SortOrder'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:329
NAME 'versionNumberLo'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:884
NAME 'msRRASAttribute'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)

attributetype ( MSADat4:781
NAME 'lastKnownParent'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:1209
NAME 'shortServerName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:60
NAME 'lockoutDuration'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:232
NAME 'defaultPriority'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:754
NAME 'rpcNsEntryFlags'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:713
attributetype ( MSADat4:1373
NAME 'mS-SQL-Clustered'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:334
NAME 'volTableIdxGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:696
NAME 'currentParentCA'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:504
NAME 'seqNotification'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:515
NAME 'serverReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:1119
NAME 'msNPAllowDialin'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:1387
NAME 'mS-SQL-GPSHeight'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1378
NAME 'mS-SQL-AppleTalk'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:269
NAME 'linkTrackSecret'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:378
NAME 'dnsAllowDynamic'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:49
NAME 'badPasswordTime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:637
NAME 'privilegeHolder'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:289
NAME 'printMediaReady'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:288
NAME 'printMACAddress'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:66
NAME 'lSACreationTime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:569
NAME 'meetingLocation'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:784
NAME 'aCSIdentityName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1410
NAME 'mS-DS-CreatorSID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:1374
NAME 'mS-SQL-NamedPipe'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:843
NAME 'IDAPAdminLimits'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
attributetype ( MSADat2:460  
NAME 'lDAPDisplayName' 
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' 
SINGLE-VALUE )

attributetype ( MSADat4:218  
NAME 'applicationName' 
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' 
SINGLE-VALUE )

attributetype ( MSADat4:695  
NAME 'pendingParentCA' 
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:779  
NAME 'aCSCacheTimeout' 
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' 
SINGLE-VALUE )

attributetype ( MSADat4:574  
NAME 'meetingLanguage' 
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:778  
NAME 'aCSDSBMDeadTime' 
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' 
SINGLE-VALUE )

attributetype ( MSADat4:697  
NAME 'cACertificateDN' 
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' 
SINGLE-VALUE )

attributetype ( MSADat4:138  
NAME 'userParameters' 
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' 
SINGLE-VALUE )

attributetype ( MSADat4:132  
NAME 'trustDirection' 
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' 
SINGLE-VALUE )

attributetype ( MSADat4:962  
NAME 'mSMQQueueQuota' 
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' 
SINGLE-VALUE )
attributetype ( MSADat4:936
NAME 'mSMQEncryptKey'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:885
NAME 'terminalServer'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:233
NAME 'printStartTime'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:664
NAME 'syncWithObject'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:344
NAME 'groupsToIgnore'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:665
NAME 'syncMembership'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:666
NAME 'syncAttributes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:214
NAME 'nextLevelStore'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:302
NAME 'sAMAccountType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1401
NAME 'mS-SQL-Keywords'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
attributetype ( MSADat2:210
NAME 'proxyAddresses'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:284
NAME 'bytesPerMinute'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:241
NAME 'printMaxCopies'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:98
NAME 'primaryGroupID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:49
NAME 'primaryGroupId'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1228
NAME 'nSMQDsServices'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:43
NAME 'fRSVersionGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:486
NAME 'fRSWorkingPath'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat2:18
NAME 'otherTelephone'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat2:277
NAME 'otherHomePhone'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:151
NAME 'oEMInformation'
NAME 'desktopProfile'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:762
NAME 'aCSServiceType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

#attributetype ( MSADat2:610
#NAME 'employeeNumber'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )

attributetype ( MSADat4:1213
NAME 'assocNTAccount'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:498
NAME 'creationWizard'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:253
NAME 'cOMOtherProgId'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)

attributetype ( MSADat4:202
NAME 'auditingPolicy'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:635
NAME 'privilegeValue'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:1366
NAME 'mS-SQL-Location'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1334
NAME 'pKIDefaultCSPs'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)

attributetype ( MSADat4:270
NAME 'printShareName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

# NO-USER-MODIFICATION
attributetype ( MSADat2:33
NAME 'isSingleValued'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:472
NAME 'domainCrossRef'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:1240
NAME 'netbootSIFFile'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:250
NAME 'cOMUniqueLIBID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:657
NAME 'serviceDNSName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:782
NAME 'objectCategory'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:122
NAME 'serviceClassID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:720
NAME 'dhcpUpdateTime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:221
NAME 'sAMAccountName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
attributetype ( MSADat4:588
#NAME 'meetingEndTime'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.53' )

attributetype ( MSADat4:1389
NAME 'mS-SQL-Language'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:777
NAME 'aCSDSBMRefresh'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1393
NAME 'mS-SQL-Database'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:20
NAME 'cOMInterfaceID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1403
NAME 'mS-SQL-AllowKnownPullSubscription'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:1394
NAME 'mS-SQL-AllowAnonymousSubscription'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:654
NAME 'managedObjects'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat2:8
NAME 'possSuperiors'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )

attributetype ( MSADat4:791
NAME 'transportType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:345
NAME 'groupPriority'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15')

attributetype ( MSADat4:117
NAME 'rpcNsPriority'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27')

attributetype ( MSADat4:917
NAME 'mSMQQueueType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:141
NAME 'versionNumber'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:121
NAME 'uSNLastObjRem'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:1346
NAME 'templateRoots'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12')

attributetype ( MSADat4:93
NAME 'pwdProperties'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:290
NAME 'printNumberUp'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:536
NAME 'TRSExtensions'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:286
NAME 'printRateUnit'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:846
NAME 'msiScriptSize'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:274
NAME 'printSpooling'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:608
NAME 'queryPolicyBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:103
NAME 'proxyLifetime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:144
NAME 'operatorCount'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:860
NAME 'netbootServer'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:369
NAME 'fSMORoleOwner'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:276
NAME 'driverVersion'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1388
NAME 'mS-SQL-Version'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:939
NAME 'mSMQNameStyle'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
attributetype ( MSADat2:471
NAME 'schemaVersion'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' )

# NO-USER-MODIFICATION
attributetype ( MSADat2:436
NAME 'directReports'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat2:255
NAME 'addressSyntax'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:235
NAME 'printFormName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:15
NAME 'msiScriptPath'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1312
NAME 'aCSServerList'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

#attributetype ( MSADat2:615
#NAME 'personalTitle'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )

attributetype ( MSADat4:1305
NAME 'moveTreeState'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:945
NAME 'mSMQSiteGates'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:1238
NAME 'mSMQDsService'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat2:76
NAME 'objectVersion'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1414
NAME 'dNSTombstoned'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:941
NAME 'mSMQLongLived'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:534
NAME 'fRSLevelLimit'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:845
NAME 'msiScriptName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

#attributetype ( MSADat4:44
#NAME 'homeDirectory'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )

attributetype ( MSADat4:698
NAME 'dhcpUniqueKey'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat2:227
NAME 'extensionName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15')

#attributetype ( MSADat2:256
#NAME 'streetAddress'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )

attributetype ( MSADat4:113
NAME 'rpcNsBindings'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15')

attributetype ( MSADat4:237
NAME 'printBinNames'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15')

# NO-USER-MODIFICATION
attributetype ( MSADat4:109
NAME 'replicaSource'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:246
NAME 'printLanguage'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15')

attributetype ( MSADat4:1365
NAME 'nM-SQL-Contact'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:357
NAME 'nTMixedDomain'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:483
NAME 'fRSFileFilter'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:332
NAME 'birthLocation'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:682
NAME 'friendlyNames'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:622
NAME 'ipsecDataType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:584
NAME 'meetingRating'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:681
NAME 'indexedScopes'
attributetype ( MSADat4:312
NAME 'rpcNsObjectID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:168
NAME 'modifiedCount'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:218
NAME 'oMObjectClass'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:772
NAME 'aCSPolicyName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:502
NAME 'timeVolChange'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:337
NAME 'currMachineId'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:120
NAME 'schemaFlagsEx'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1356
NAME 'validAccesses'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:158
NAME 'domainReplica'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1309
NAME 'mSMQInterval2'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1308
NAME 'mSMQInterval1'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:916
NAME 'canonicalName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:94
NAME 'ntPwdHistory'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:133
NAME 'trustPartner'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:160
NAME 'lmPwdHistory'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:1380
NAME 'mS-SQL-Status'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat2:469
NAME 'USNIntersite'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:858
NAME 'netboofTools'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:99
NAME 'priorSetTime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:1367
NAME 'mS-SQL-Memory'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:950
NAME 'mSMQServices'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

#attributetype ( MSADat2:613
#NAME 'employeeType'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )

attributetype ( MSADat4:27
NAME 'currentValue'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:822
NAME 'siteLinkList'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:107
NAME 'remoteSource'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:325
NAME 'setupCommand'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat2:212
NAME 'dSHeuristics'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1336
NAME 'replInterval'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:234
NAME 'printEndTime'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:1
NAME 'instanceType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:722
NAME 'otherlpPhone'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:965
NAME 'mSMQSiteName'
SYNTAX 'MSADtelex'
SINGLE-VALUE )

attributetype ( MSADat4:579
NAME 'meetingOwner'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:242
NAME 'printCollate'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:480
NAME 'defaultGroup'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:79
NAME 'minPwdLength'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:864
NAME 'netbootSCPBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:650
NAME 'mhsORAddress'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

#attributetype ( MSADat4:651
#NAME 'otherMailbox'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
attributetype ( MSADat4:367
NAME 'rpcNsCodeset'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

# NO-USER-MODIFICATION
attributetype ( MSADat2:14
NAME 'hasMasterNCs'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:952
NAME 'mSMQMigrated'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat2:74
NAME 'dSASignature'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:115
NAME 'invocationId'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:254
NAME 'cOMTypelibId'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:26
NAME 'creationTime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:581
NAME 'meetingScope'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:336
NAME 'volTableGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:513
NAME 'siteObjectBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
attributetype ( MSADat4:756
NAME 'aCSTimeOfDay'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:757
NAME 'aCSDirection'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:77
NAME 'maxTicketAge'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:481
NAME 'schemaUpdate'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.24'
SINGLE-VALUE )

attributetype ( MSADat4:80
NAME 'minTicketAge'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:628
NAME 'ipsecNegotiationPolicyReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat2:327
NAME 'helpFileName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:148
NAME 'schemaIDGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:810
NAME 'createDialog'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:964
NAME 'mSMQNt4Flags'

SYNTAX  '1.3.6.1.4.1.1466.115.121.1.27'  
SINGLE-VALUE  

attributetype ( MSADat4:327  
NAME 'packageFlags'  
SYNTAX  '1.3.6.1.4.1.1466.115.121.1.27'  
SINGLE-VALUE  )  

attributetype ( MSADat2:464  
NAME 'wWWHomePage'  
SYNTAX  '1.3.6.1.4.1.1466.115.121.1.15'  
SINGLE-VALUE  )  

attributetype ( MSADat4:507  
NAME 'volumeCount'  
SYNTAX  '1.3.6.1.4.1.1466.115.121.1.27'  
SINGLE-VALUE  )  

attributetype ( MSADat4:273  
NAME 'printStatus'  
SYNTAX  '1.3.6.1.4.1.1466.115.121.1.15'  
SINGLE-VALUE  )  

attributetype ( MSADat4:890  
NAME 'uPNSuffixes'  
SYNTAX  '1.3.6.1.4.1.1466.115.121.1.15'  )  

attributetype ( MSADat4:471  
NAME 'trustParent'  
SYNTAX  '1.3.6.1.4.1.1466.115.121.1.12'  
SINGLE-VALUE  )  

attributetype ( MSADat4:1301  
NAME 'tokenGroups'  
SYNTAX  '1.3.6.1.4.1.1466.115.121.1.40'  )  

# NO-USER-MODIFICATION  
attributetype ( MSADat4:375  
NAME 'systemFlags'  
SYNTAX  '1.3.6.1.4.1.1466.115.121.1.27'  
SINGLE-VALUE  )  

attributetype ( MSADat4:667  
NAME 'syncWithSID'  
SYNTAX  '1.3.6.1.4.1.1466.115.121.1.40'  
SINGLE-VALUE  )  

attributetype ( MSADat4:1306
NAME 'dNSProperty'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:710
NAME 'superScopes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.44' )

attributetype ( MSADat4:1347
NAME 'sPNMappings'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:272
NAME 'printNotify'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:282
NAME 'printMemory'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:154
NAME 'serverState'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:942
NAME 'mSMQVersion'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:373
NAME 'rIDUsedPool'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:1355
NAME 'queryFilter'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:300
NAME 'printerName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:97
NAME 'preferredOU'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:649
NAME 'primaryInternationalISDNNumber'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:333
NAME 'oMTIndxGuid'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1337
NAME 'mSMQUserSid'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:487
NAME 'IRSRootPath'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:918
NAME 'mSMQJournal'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:499
NAME 'contextMenu'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)

attributetype ( MSADat4:764
NAME 'aCSPriority'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:937
NAME 'mSMQSignKey'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:359
NAME 'netbootGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
attributetype ( MSADat4:925
NAME 'mSMQOwnerID
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat2:24
NAME 'mustContain'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )

attributetype ( MSADat4:379
NAME 'dnsAllowXFR'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:1379
NAME 'mS-SQL-Vines'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:948
NAME 'mSMQDigests'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:662
NAME 'lockoutTime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:53
NAME 'lastSetTime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:25
NAME 'countryCode'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1377
NAME 'mS-SQL-TCPIP'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:934
NAME 'mSMQForeign'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

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attributetype ( MSADat4:571
NAME 'meetingType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:714
NAME 'dhcpOptions'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:704
NAME 'dhcpServers'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.44' )

attributetype ( MSADat4:283
NAME 'assetNumber'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat2:350
NAME 'addressType'
SYNTAX 'MSADtelex'
SINGLE-VALUE )

attributetype ( MSADat4:940
NAME 'mSMQCSPName'
SYNTAX 'MSADtelex'
SINGLE-VALUE )

attributetype ( MSADat4:671
NAME 'msiFileList'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:619
NAME 'dNSHostName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:705
NAME 'dhcpSubnets'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.44' )

attributetype ( MSADat4:1328
NAME 'pKlKeyUsage'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:30
NAME 'attributeID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
SINGLE-VALUE )

attributetype ( MSADat4:506
NAME 'objectCount'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:503
NAME 'timeRefresh'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:139
NAME 'profilePath'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:818
NAME 'productCode'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:647
NAME 'otherMobile'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)

attributetype ( MSADat4:12
NAME 'badPwdCount'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1368
NAME 'mS-SQL-Build'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

#attributetype ( MSADat2:13
#NAME 'displayName'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )

attributetype ( MSADat4:87
NAME 'nETBIOSName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
attributetype ( MSADat4:1395
NAME 'mS-SQL-Alias'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:75
NAME 'maxRenewAge'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:806
NAME 'treatAsLeaf'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:960
NAME 'mSMQNt4Stub'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' )

attributetype ( MSADat4:324
NAME 'packageType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1212
NAME 'isEphemeral'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:36
NAME 'dMDLocation'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:715
NAME 'dhcpClasses'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:39
NAME 'forceLogoff'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:2
NAME 'whenCreated'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.24'
SINGLE-VALUE )

attributetype ( MSADat4:566
NAME 'meetingName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:786
NAME 'mailAddress'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:590
NAME 'meetingBlob'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:71
NAME 'machineRole'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat2:334
NAME 'searchFlags'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:3
NAME 'whenChanged'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.24'
SINGLE-VALUE )

attributetype ( MSADat4:702
NAME 'dhcpObjName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:897
NAME 'aCSMaxAggregatePeakRatePerUser'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:326
NAME 'packageName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
NAME 'logonHours'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:854
NAME 'netbootAnswerOnlyValidClients'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:96
NAME 'pwdLastSet'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:243
NAME 'printColor'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:1391
NAME 'mS-SQL-Type'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:40
NAME 'fromServer'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:157
NAME 'serverRole'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:100
NAME 'priorValue'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:169
NAME 'logonCount'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:90
NAME 'unicodePwd'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
attributetype ( MSADat2:21
NAME 'subClassOf'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
SINGLE-VALUE )

attributetype ( MSADat4:1396
NAME 'mS-QL-Size'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:101
NAME 'privateKey'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:512
NAME 'siteObject'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:62
NAME 'scriptPath'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:223
NAME 'serverName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:953
NAME 'mSMQSiteID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:340
NAME 'rightsGuid'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:374
NAME 'yIDNextRID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
attributetype ( MSADat4:583
NAME 'meetingURL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat2:400
NAME 'addressEntryDisplayTableMSDOS'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:76
NAME 'maxStorage'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat2:35
NAME 'rangeUpper'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat2:34
NAME 'rangeLower'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat2:118
NAME 'otherPager'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:639
NAME 'isMemberOfPartialAttributeSet'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1224
NAME 'parentGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat2:141
NAME 'department'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat2:25
NAME 'mayContain'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )
attributetype ( MSADat4:150
NAME 'adminCount'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:51
NAME 'lastLogoff'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1409
NAME 'masteredBy'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:35
NAME 'employeeID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:719
NAME 'dhcpMaxKey'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:229
NAME 'driverName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1363
NAME 'mS-SQL-Name'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:322
NAME 'categoryId'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:889
NAME 'additionalTrustedServiceNames'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1354
NAME 'scopeFlags'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
attributetype ( MSADat4:672
NAME 'categories'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:855
NAME 'netbootNewMachineNamingPolicy'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:19
NAME 'cOMClassID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

# NO-USER-MODIFICATION
attributetype ( MSADat2:120
NAME 'uSNChanged'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:2
NAME 'objectGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:707
NAME 'dhcpRanges'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.44' )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1358
NAME 'schemaInfo'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:646
NAME 'otherFacsimileTelephoneNumber'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:520
NAME 'machinePasswordChangeInterval'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:674
NAME 'rootTrust'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:136
NAME 'trustType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:750
NAME 'groupType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:896
NAME 'uSNSource'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:919
NAME 'mSMQQuota'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:927
NAME 'mSMQSites'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
)

# NO-USER-MODIFICATION
attributetype ( MSADat4:910
NAME 'fromEntry'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
)

attributetype ( MSADat4:1376
NAME 'mS-SQL-SPX'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:892
NAME 'gPOptions'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:814
NAME 'msiScript'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:285
NAME 'printRate'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
attributetype ( MSADat4:683
NAME 'cRLPartitionedRevocationList'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:652
NAME 'assistant'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:490
NAME 'fRSDSPoll'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:663
NAME 'partialAttributeDeletionList'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:52
NAME 'lastLogon'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:22
NAME 'governsID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
SINGLE-VALUE )

attributetype ( MSADat4:341
NAME 'appliesTo'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:268
NAME 'eFSPolicy'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:155
NAME 'uASCompat'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:538
NAME 'prefixMap'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.140'
SINGLE-VALUE )

attributetype ( MSADat4:661
NAME 'isDefunct'
syntax '1.3.6.1.4.1.1466.115.121.1.17'
single-value )

attributetype ( MSADat4:708
NAME 'dhcpSites'
syntax '1.3.6.1.4.1.1466.115.121.1.44' )

attributetype ( MSADat4:888
NAME 'IPSECNegotiationPolicyAction'
syntax '1.3.6.1.4.1.1466.115.121.1.15'
single-value )

attributetype ( MSADat4:382
NAME 'dnsRecord'
syntax '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:21
NAME 'cOMProgID'
syntax '1.3.6.1.4.1.1466.115.121.1.15'

attributetype ( MSADat4:45
NAME 'homeDrive'
syntax '1.3.6.1.4.1.1466.115.121.1.15'
single-value )

attributetype ( MSADat4:580
NAME 'meetingIP'
syntax '1.3.6.1.4.1.1466.115.121.1.15'
single-value )

attributetype ( MSADat4:1321
NAME 'aCSNonReservedMinPolicedSize'
syntax 'MSADlargeInteger'
single-value )

attributetype ( MSADat4:717
NAME 'dhcpState'
syntax '1.3.6.1.4.1.1466.115.121.1.44' )

attributetype ( MSADat4:922
NAME 'mSMQLabel'
syntax 'MSADtelex'
single-value )
attributetype ( MSADat4:74
NAME 'maxPwdAge'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:78
NAME 'minPwdAge'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:689
NAME 'cRLObject'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:146
NAME 'objectSid'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:565
NAME 'meetingID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:620
NAME 'ipsecName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:48
NAME 'isDeleted'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:760
NAME 'aCSAggregateTokenRatePerUser'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:623
NAME 'ipsecData'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:668
NAME 'domainCAs'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:687
NAME 'cAConnect'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:238
NAME 'printMaxResolutionSupported'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:700
NAME 'dhcpFlags'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat2:402
NAME 'helpData16'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:653
NAME 'managedBy'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat2:9
NAME 'helpData32'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:944
NAME 'mSMQSsite2'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:943
NAME 'mSMQSsite1'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:677
NAME 'replTopologyStayOfExecution'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
attributetype ( MSADat4:228
NAME 'portName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:859
NAME 'netbootLocallyInstalledOSes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:261
NAME 'division'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:902
NAME 'aCSMaxSizeOfRSVPAccountFile'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:699
NAME 'dhcpType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:301
NAME 'wbemPath'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:362
NAME 'siteGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:26
NAME 'dDNAttID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
SINGLE-VALUE )

attributetype ( MSADat4:900
NAME 'aCSRSVPAccountFilesLocation'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1226
NAME 'mSMQDependentClientServices'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
attributetype ( MSADat4:222
   NAME 'location'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
   SINGLE-VALUE )

attributetype ( MSADat4:874
   NAME 'fRSFlags'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
   SINGLE-VALUE )

attributetype ( MSADat4:219
   NAME 'iconPath'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:688
   NAME 'cAWEBURL'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
   SINGLE-VALUE )

attributetype ( MSADat4:716
   NAME 'mscopeId'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.44'
   SINGLE-VALUE )

   # NO-USER-MODIFICATION
attributetype ( MSADat4:660
   NAME 'treeName'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
   SINGLE-VALUE )

attributetype ( MSADat4:211
   NAME 'schedule'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
   SINGLE-VALUE )

attributetype ( MSADat4:557
   NAME 'parentCA'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
   SINGLE-VALUE )

attributetype ( MSADat4:249
   NAME 'cOMCLSID'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
   SINGLE-VALUE )

attributetype ( MSADat4:675
   NAME 'catalogs'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'

# NO-USER-MODIFICATION
attributetype ( MSADat2:102
NAME 'memberOf'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:690
NAME 'cAUUsages'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:706
NAME 'dhcpMask'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.44' )

attributetype ( MSADat4:511
NAME 'flatName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:686
NAME 'domainID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:58
NAME 'localeID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' )

attributetype ( MSADat4:16
NAME 'codePage'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:768
NAME 'aCSEnableRSVPMessageLogging'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:240
NAME 'printOrientationsSupported'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:883
NAME 'msRRASVendorAttributeEntry'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1246
NAME 'interSiteTopologyGenerator'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:307
NAME 'options'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:28
NAME 'dnsRoot'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:887
NAME 'IPSECNegotiationPolicyType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1392
NAME 'mS-SQL-InformationDirectory'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:365
NAME 'operatingSystemServicePack'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:88
NAME 'nextRid'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:865
NAME 'pekList'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:7
NAME 'subRefs'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:505
NAME 'oMTGuid'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
attributetype ( MSADat4:205
NAME 'pKTGuid'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat2:146
NAME 'company'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:82
NAME 'moniker'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:156
NAME 'comment'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:721
NAME 'ipPhone'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1361
NAME 'mS-DS-ConsistencyChildCount'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:679
NAME 'creator'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:137
NAME 'uNCName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:55
NAME 'dBCSPwd'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:1239
NAME 'mSMQDependentClientService'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

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attributetype ( MSADat4:684
NAME 'certificateAuthorityObject'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:621
NAME 'ipsecID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:914
NAME 'allowedAttributesEffective'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )

#attributetype ( MSADat2:598
#NAME 'dmdName'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )

attributetype ( MSADat4:759
NAME 'aCSMaxPeakBandwidthPerFlow'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat2:557
NAME 'Enabled'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat2:326
NAME 'perRecipDialogDisplayTable'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:1248
NAME 'interSiteTopologyFailover'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:895
NAME 'transportAddressAttribute'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
SINGLE-VALUE )

attributetype ( MSADat4:852
NAME 'netbootCurrentClientCount'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:372
NAME 'rIDPreviousAllocationPool'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat2:83
NAME 'repsTo'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:224
NAME 'defaultSecurityDescriptor'
SYNTAX 'MSADsecDesc'
SINGLE-VALUE )

attributetype ( MSADat4:519
NAME 'lastBackupRestorationTime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:873
NAME 'fRSControlOutboundBacklog'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:255
NAME 'vendor'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:891
NAME 'gPLink'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat2:214
NAME 'originalDisplayTableMSDOS'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:50
NAME 'linkID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1130
NAME 'msNPSavedCallingStationID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )

# NO-USER-MODIFICATION
attributetype ( MSADat2:49
NAME 'mAPIID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:510
NAME 'serviceBindingInformation'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

# NO-USER-MODIFICATION
attributetype ( MSADat2:16
NAME 'nCName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:1303
NAME 'tokenGroupsNoGCAcceptable'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:1418
NAME 'tokenGroupsGlobalAndUniversal'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:1190
NAME 'msRASSavedFramedIPAddress'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:766
NAME 'aCSAllocableRSVPBandwidth'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:61
NAME 'lockOutObservationWindow'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:857
NAME 'netbootIntelliMirrorOses'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
attributetype ( MSADat4:1320
NAME 'aCSNonReservedMaxSDUSize'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:265
NAME 'notes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:673
NAME 'retiredRepIDSASignatures'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:1313
NAME 'aCSMaxTokenBucketPerFlow'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat2:324
NAME 'addressEntryDisplayTable'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:1317
NAME 'aCSMinimumDelayVariation'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:872
NAME 'fRSControlInboundBacklog'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:38
NAME 'flags'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1399
NAME 'mS-SQL-LastDiagnosticDate'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1348
NAME 'gPCMachineExtensionNames'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )

attributetype ( MSADat4:1411
NAME 'ms-DS-MachineAccountQuota'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )

attributetype ( MSADat2:325
NAME 'perMsgDialogDisplayTable'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )

attributetype ( MSADat4:57
NAME 'defaultLocalPolicyObject'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )

attributetype ( MSADat4:1189
NAME 'msRASSavedCallbackNumber'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' SINGLE-VALUE )

attributetype ( MSADat4:685
NAME 'parentCACertificateChain'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )

attributetype ( MSADat4:893
NAME 'gPCFunctionalityVersion'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )

attributetype ( MSADat4:879
NAME 'fRSServiceCommandStatus'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )

attributetype ( MSADat4:1319
NAME 'aCSNonReservedTokenSize'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:775
NAME 'aCSMaxSizeOfRSVPLogFile'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
attributetype ( MSADat2:135
NAME 'cost'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:81
NAME 'modifiedCountAtLastProm'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:773
NAME 'aCSRSVPLogFilesLocation'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

#attributetype ( MSADat2:81
#NAME 'info'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )

attributetype ( MSADat4:125
NAME 'supplementalCredentials'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:819
NAME 'bridgeheadTransportList'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:967
NAME 'mSMQSignCertificatesMig'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

## NO-USER-MODIFICATION
#attributetype ( MSADat4:1
#NAME 'name'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )

attributetype ( MSADat4:1153
NAME 'msRADIUSFramedIPAddress'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1408
NAME 'mS-DS-ReplicatesNCReason'
SYNTAX 'MSADdnWithOctetString' )
attributetype ( MSADat4:899
NAME 'aCSEnableRSVPAccounting'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

#attributetype ( MSADat4:881
#NAME 'RSTimeLastConfigChange'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.53'
#SINGLE-VALUE )

attributetype ( MSADat4:281
NAME 'printStaplingSupported'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:1247
NAME 'interSiteTopologyRenew'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:364
NAME 'operatingSystemVersion'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:91
NAME 'otherLoginWorkstations'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:849
NAME 'netbootAllowNewClients'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:1372
NAME 'mS-SQL-UnicodeSortOrder'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:749
NAME 'url'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:206
NAME 'pKT'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
attributetype ( MSADat4:199
NAME 'serviceInstanceVersion'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat2:169
NAME 'showInAdvancedViewOnly'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:758
NAME 'aCSMaxTokenRatePerFlow'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:868
NAME 'isCriticalSystemObject'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:576
NAME 'meetingMaxParticipants'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1208
NAME 'aNR'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:153
NAME 'rid'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat2:523
NAME 'proxyGenerationEnabled'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:871
NAME 'fRSControlDataCreation'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:692
NAME 'previousCACertificates'

SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:24
NAME 'contentIndexingAllowed'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:633
NAME 'policyReplicationFlags'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:870
NAME 'frsComputerReferenceBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:1318
NAME 'aCSNonReservedPeakRate'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:901
NAME 'aCSMaxNoOfAccountFiles'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:514
NAME 'physicalLocationObject'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:928
NAME 'mSMQOutRoutingServers'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

# NO-USER-MODIFICATION
attributetype ( MSADat4:820
NAME 'bridgeheadServerListBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:1145
NAME 'msRADIUSCallbackNumber'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.26'
SINGLE-VALUE )

attributetype ( MSADat4:361
NAME 'netbootMachineFilePath'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:963
NAME 'mSMQQueueJournalQuota'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:853
NAME 'netbootAnswerRequests'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:415
NAME 'operatingSystemHotfix'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:149
NAME 'attributeSecurityGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:711
NAME 'superScopeDescription'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1359
NAME 'otherWellKnownObjects'
SYNTAX 'MSADdnWithOctetString' )

attributetype ( MSADat4:780
NAME 'aCSNonReservedTxLimit'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:11
NAME 'authenticationOptions'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:867
NAME 'altSecurityIdentities'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1349
NAME 'gPCUserExtensionNames'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:358
NAME 'netbootInitialization'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1364
NAME 'mS-SQL-RegisteredOwner'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:761
NAME 'aCSMaxDurationPerFlow'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:1330
NAME 'pKICriticalExtensions'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:748
NAME 'attributeDisplayNames'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1404
NAME 'mS-SQL-AllowImmediateUpdatingSubscription'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:1191
NAME 'msRASSavedFramedRoute'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )

attributetype ( MSADat4:752
NAME 'userSharedFolderOther'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

#attributetype ( MSADat2:131
#NAME 'co'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:909
NAME 'extendedAttributeInfo'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
attributetype ( MSADat4:1241
NAME 'netbootMirrorDataFile'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1315
NAME 'aCSMinimumPolicedSize'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:1353
NAME 'localizationDisplayId'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:582
NAME 'meetingAdvertiseScope'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1343
NAME 'dSUIAdminNotification'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

attributetype ( MSADat4:1381
NAME 'inS-SQL-LastUpdatedDate'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:1357
NAME 'dSCorePropagationData'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.24' )

attributetype ( MSADat4:320
NAME 'implementedCategories'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

attributetype ( MSADat4:783
NAME 'defaultObjectCategory'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:422
NAME 'domainPolicyReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
attributetype ( MSADat4:929
NAME 'mSMQInRoutingServers'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:1311
NAME 'printDuplexSupported'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:693
NAME 'pendingCACertificates'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:281
NAME 'nTSecurityDescriptor'
SYNTAX 'MSADsecDesc'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:198
NAME 'systemAuxiliaryClass'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )

attributetype ( MSADat4:898
NAME 'aCSNonReservedTxSize'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:1382
NAME 'mS-SQL-InformationURL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:3
NAME 'replPropertyMetaData'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:1384
NAME 'mS-SQL-PublicationURL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:275
NAME 'printKeepPrintedJobs'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat2:267
NAME 'uSNDSALastObjRemoved'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:381
NAME 'dnsNotifySecondaries'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' )

attributetype ( MSADat4:1360
NAME 'mS-DS-ConsistencyGuid'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:869
NAME 'frsComputerReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:1369
NAME 'mS-SQL-ServiceAccount'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1124
NAME 'msNPCallingStationID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )

attributetype ( MSADat4:947
NAME 'mSMQSignCertificates'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:624
NAME 'ipsecOwnersReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:14
NAME 'builtinModifiedCount'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

attributetype ( MSADat4:634
NAME 'privilegeDisplayName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'

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attributetype ( MSADat2:15
NAME 'hasPartialReplicaNCs'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:457
NAME 'localPolicyReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat2:380
NAME 'extendedCharsAllowed'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:629
NAME 'ipsecFilterReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:626
NAME 'ipsecISAKMMPReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )

attributetype ( MSADat4:876
NAME 'IRSMemberReferenceBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:314
NAME 'rpcNsTransferSyntax'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1227
NAME 'mSMQRoutingServices'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.17'
SINGLE-VALUE )

attributetype ( MSADat4:1375
NAME 'mS-SQL-MultiProtocol'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:825
NAME 'enrollmentProviders'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
attributetype ( MSADat4:287
NAME 'printNetworkAddress'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1171
NAME 'msRADIUSServiceType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:631
NAME 'printPagesPerMinute'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:299
NAME 'printMediaSupported'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15')

attributetype ( MSADat4:824
NAME 'signatureAlgorithms'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:877
NAME 'fRSPartnerAuthLevel'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

attributetype ( MSADat4:636
NAME 'privilegeAttributes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:640
NAME 'partialAttributeSet'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

attributetype ( MSADat4:850
NAME 'netbootLimitClients'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )

attributetype ( MSADat4:1383
NAME 'mS-SQL-ConnectionURL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1406
NAME 'mS-SQL-AllowSnapshotFilesFTPdownloading'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.17'
SINGLE-VALUE )

attributetype ( MSADat4:1331
NAME 'pKIExpirationPeriod'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

# NO-USER-MODIFICATION
attributetype ( MSADat4:531
NAME 'nonSecurityMemberBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

attributetype ( MSADat4:540
NAME 'initialAuthOutgoing'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

attributetype ( MSADat4:1158
NAME 'msRADIUSFramedRoute'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )

attributetype ( MSADat4:200
NAME 'controlAccessRights'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )

objectclass ( MSADoc5:0 NAME 'mstop' SUP top ABSTRACT
MUST (objectClass $ instanceType
$ nTSecurityDescriptor $ objectCategory ) MAY (cn $ description $ distinguishedName
$ whenCreated $ whenChanged $ subRefs $ displayName $ uSNCreated $ isDeleted
$ dSASignature $ objectVersion $ repsTo $ repsFrom $ memberOf $ ownerBL
$ uSNChanged $ uSNLastObjRem $ showInAdvancedViewOnly $ adminDisplayName
$ proxyAddresses $ adminDescription $ extensionName $ uSNDALastObjRemoved
$ displayNamePrintable $ directReports $ wWHomePage $ USNIntersite $ name
$ objectGUID $ replPropertyMetaData $ replUpToDateVector $ flags $ revision
$ wbemPath $ fSMORoleOwner $ systemFlags $ siteObjectBL $ serverReferenceBL
$ nonSecurityMemberBL $ queryPolicyBL $ wellKnownObjects $ isPrivilegeHolder
$ partialAttributeSet $ managedObjects $ partialAttributeDeletionList $ url
$ lastKnownParent $ bridgeheadServerListBL $ netbootSCPBL $ isCriticalSystemObject
$ frsComputerReferenceBL $ fRSMemberReferenceBL $ uSNSource $ fromEntry
$ allowedChildClasses $ allowedChildClassesEffective $ allowedAttributes
$ allowedAttributesEffective $ possibleInferiors $ canonicalName $ proxiedObjectName

Open Source Used In Cisco Telemetry Broker On Prem 1.3.1 2992
This directory contains user application schema definitions for use with slapd(8).

<table>
<thead>
<tr>
<th>File</th>
<th>Description</th>
</tr>
</thead>
</table>

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

Open Source Used In Cisco Telemetry Broker On Prem 1.3.1 2994
collective.schema  Collective attributes (experimental)
corba.schema    Corba Object
core.schema     OpenLDAP "core"
cosine.schema   COSINE Pilot
dsee.schema     Sun DSEE compatibility schema for replication
duacronf.schema Client Configuration (work in progress)
dyngroup.schema Dynamic Group (experimental)
inetorgperson.schema InetOrgPerson
java.schema      Java Object
misc.schema      Miscellaneous Schema (experimental)
msuser.schema    Microsoft's Active Directory schema for replication
namedobject.schema namedObject draft schema (work in progress)
nis.schema       Network Information Service (experimental)
openldap.schema  OpenLDAP Project (FYI)
pmi.schema       ITU X.509 PMI support (experimental)

Additional "generally useful" schema definitions can be submitted using the OpenLDAP Issue Tracking System <http://www.openldap.org/its/>. Submissions should include a stable reference to a mature, open technical specification (e.g., an RFC) for the schema.

The core.ldif and openldap.ldif files are equivalent to their corresponding *.schema files. They have been provided as examples for use with the dynamic configuration backend. These example files are not actually necessary since slapd will automatically convert any included *.schema files into LDIF when converting a slapd.conf file to a configuration database, but they serve as a model of how to convert schema files in general.

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This notice applies to all files in this directory.

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* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/README
No license file was found, but licenses were detected in source scan.

# RFC1274: Cosine and Internet X.500 schema
# $OpenLDAP$
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The COSINE and Internet X.500 Schema

Abstract

This document suggests an X.500 Directory Schema, or Naming Architecture, for use in the COSINE and Internet X.500 pilots. The schema is independent of any specific implementation. As well as indicating support for the standard object classes and attributes, a large number of generally useful object classes and attributes are also defined. An appendix to this document includes a machine processable version of the schema.

7. Object Identifiers

Some additional object identifiers are defined for this schema.

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# pilotAttributeType OBJECT IDENTIFIER ::= {pilot 1}
# pilotAttributeSyntax OBJECT IDENTIFIER ::= {pilot 3}
# pilotObjectClass OBJECT IDENTIFIER ::= {pilot 4}
# pilotGroups OBJECT IDENTIFIER ::= {pilot 10}
#
# iA5StringSyntax OBJECT IDENTIFIER ::= {pilotAttributeSyntax 4}
# caseIgnoreIA5StringSyntax OBJECT IDENTIFIER ::=
#   {pilotAttributeSyntax 5}
#
# 8. Object Classes
# [relocated after 9]

#
# 9. Attribute Types
#
# 9.1. X.500 standard attribute types
#
# A number of generally useful attribute types are defined in X.520,
# and these are supported. Refer to that document for descriptions of
# the suggested usage of these attribute types. The ASN.1 for these
# attribute types is reproduced for completeness in Appendix C.
#
# 9.2. X.400 standard attribute types
#
# The standard X.400 attribute types are supported. See X.402 for full
# details. The ASN.1 for these attribute types is reproduced in
# Appendix C.
#
# 9.3. COSINE/Internet attribute types
#
# This section describes all the attribute types defined for use in the
# COSINE and Internet pilots. Descriptions are given as to the
# suggested usage of these attribute types. The ASN.1 for these
# attribute types is reproduced in Appendix C.
#
# 9.3.1. Userid
#
# The Userid attribute type specifies a computer system login name.
#
# userid ATTRIBUTE
#     WITH ATTRIBUTE-SYNTAX
#        caseIgnoreStringSyntax
#        (SIZE (1 .. ub-user-identifier))
# ::= {pilotAttributeType 1}
#
#(in core.schema)
##attributetype ( 0.9.2342.19200300.100.1.1 NAME ( 'uid' 'userid' )
## EQUALITY caseIgnoreMatch
## SUBSTR caseIgnoreSubstringsMatch
## SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{256} )

# 9.3.2. Text Encoded O/R Address
#
# The Text Encoded O/R Address attribute type specifies a text encoding
# of an X.400 O/R address, as specified in RFC 987. The use of this
# attribute is deprecated as the attribute is intended for interim use
# only. This attribute will be the first candidate for the attribute
# expiry mechanisms!
#
# textEncodedORAddress ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreStringSyntax
# (SIZE (1 .. ub-text-encoded-or-address))
# ::= {pilotAttributeType 2}
#
# attributetype ( 0.9.2342.19200300.100.1.2 NAME 'textEncodedORAddress'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{256} )

# 9.3.3. RFC 822 Mailbox
#
# The RFC822 Mailbox attribute type specifies an electronic mailbox
# attribute following the syntax specified in RFC 822. Note that this
# attribute should not be used for greybook or other non-Internet order
# mailboxes.
#
# rfc822Mailbox ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreIA5StringSyntax
# (SIZE (1 .. ub-rfc822-mailbox))
# ::= {pilotAttributeType 3}
#
# #(in core.schema)
##attributetype ( 0.9.2342.19200300.100.1.3 NAME 'mail' 'rfc822Mailbox' )
##EQUALITY caseIgnoreIA5Match
##SUBSTR caseIgnoreIA5SubstringsMatch
##SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{256} )

# 9.3.4. Information
#
# The Information attribute type specifies any general information
# pertinent to an object. It is recommended that specific usage of
# this attribute type is avoided, and that specific requirements are
# met by other (possibly additional) attribute types.


# info ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreStringSyntax
# (SIZE (1 .. ub-information))
# ::= {pilotAttributeType 4}
#
attributetype ( 0.9.2342.19200300.100.1.4 NAME 'info'
DESC 'RFC1274: general information'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{2048} )

# 9.3.5. Favourite Drink
#
# The Favourite Drink attribute type specifies the favourite drink of
# an object (or person).
#
# favouriteDrink ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreStringSyntax
# (SIZE (1 .. ub-favourite-drink))
# ::= {pilotAttributeType 5}
#
attributetype ( 0.9.2342.19200300.100.1.5
NAME ( 'drink' 'favouriteDrink' )
DESC 'RFC1274: favorite drink'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{256} )

# 9.3.6. Room Number
#
# The Room Number attribute type specifies the room number of an
# object. Note that the commonName attribute should be used for naming
# room objects.
#
# roomNumber ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreStringSyntax
# (SIZE (1 .. ub-room-number))
# ::= {pilotAttributeType 6}
#
attributetype ( 0.9.2342.19200300.100.1.6 NAME 'roomNumber'
DESC 'RFC1274: room number'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
# 9.3.7. Photo

# The Photo attribute type specifies a "photograph" for an object.
# This should be encoded in G3 fax as explained in recommendation T.4,
# with an ASN.1 wrapper to make it compatible with an X.400 BodyPart as
# defined in X.420.
#
# IMPORT G3FacsimileBodyPart FROM { mhs-motis ipms modules
# information-objects }
#
# photo ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# CHOICE {
#  g3-facsimile [3] G3FacsimileBodyPart
#  }
# (SIZE (1 .. ub-photo))
# ::= {pilotAttributeType 7}
#
attributetype ( 0.9.2342.19200300.100.1.7 NAME 'photo'
DESC 'RFC1274: photo (G3 fax)'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.23{25000} )

# 9.3.8. User Class

# The User Class attribute type specifies a category of computer user.
# The semantics placed on this attribute are for local interpretation.
# Examples of current usage of this attribute in academia are
# undergraduate student, researcher, lecturer, etc. Note that the
# organizationalStatus attribute may now often be preferred as it makes
# no distinction between computer users and others.
#
# userClass ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreStringSyntax
# (SIZE (1 .. ub-user-class))
# ::= {pilotAttributeType 8}
#
attributetype ( 0.9.2342.19200300.100.1.8 NAME 'userClass'
DESC 'RFC1274: category of user'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{256} )

# 9.3.9. Host

# The Host attribute type specifies a host computer.
# 9.3.10. Manager
#
# The Manager attribute type specifies the manager of an object
# represented by an entry.
#
# manager ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
distinguishedNameSyntax
# ::= {pilotAttributeType 10}
#
attributetype ( 0.9.2342.19200300.100.1.10 NAME 'manager'
DESC 'RFC1274: DN of manager'
EQUALITY distinguishedNameMatch
SUBSTR distinguishedNameSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )

# 9.3.11. Document Identifier
#
# The Document Identifier attribute type specifies a unique identifier
# for a document.
#
# documentIdentifier ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
caseIgnoreStringSyntax
# (SIZE (1 .. ub-document-identifier))
# ::= {pilotAttributeType 11}
#
attributetype ( 0.9.2342.19200300.100.1.11 NAME 'documentIdentifier'
DESC 'RFC1274: unique identifier of document'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15[256] )

# 9.3.12. Document Title
#
# The Document Title attribute type specifies the title of a document.
# documentTitle ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreStringSyntax
# (SIZE (1 .. ub-document-title))
# ::= {pilotAttributeType 12}
#
attributetype ( 0.9.2342.19200300.100.1.12 NAME 'documentTitle'
DESC 'RFC1274: title of document'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{256} )

# 9.3.13. Document Version
#
# The Document Version attribute type specifies the version number of a
document.
#
# documentVersion ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreStringSyntax
# (SIZE (1 .. ub-document-version))
# ::= {pilotAttributeType 13}
#
attributetype ( 0.9.2342.19200300.100.1.13 NAME 'documentVersion'
DESC 'RFC1274: version of document'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{256} )

# 9.3.14. Document Author
#
# The Document Author attribute type specifies the distinguished name
# of the author of a document.
#
# documentAuthor ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# distinguishedNameSyntax
# ::= {pilotAttributeType 14}
#
attributetype ( 0.9.2342.19200300.100.1.14 NAME 'documentAuthor'
DESC 'RFC1274: DN of author of document'
EQUALITY distinguishedNameMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )

# 9.3.15. Document Location
#
# The Document Location attribute type specifies the location of the
# document original.
#
# documentLocation ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#       caseIgnoreStringSyntax
#   ::= {pilotAttributeType 15}
#
attributetype ( 0.9.2342.19200300.100.1.15 NAME 'documentLocation'
DESC 'RFC1274: location of document original'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15(256) )

# 9.3.16. Home Telephone Number
#
# The Home Telephone Number attribute type specifies a home telephone
# number associated with a person. Attribute values should follow the
# agreed format for international telephone numbers: i.e., "+44 71 123
# 4567".
#
# homeTelephoneNumber ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#       telephoneNumberSyntax
#   ::= {pilotAttributeType 20}
#
attributetype ( 0.9.2342.19200300.100.1.20
NAME ( 'homePhone' 'homeTelephoneNumber' )
DESC 'RFC1274: home telephone number'
EQUALITY telephoneNumberMatch
SUBSTR telephoneNumberSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.50 )

# 9.3.17. Secretary
#
# The Secretary attribute type specifies the secretary of a person.
# The attribute value for Secretary is a distinguished name.
#
# secretary ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#       distinguishedNameSyntax
#   ::= {pilotAttributeType 21}
#
attributetype ( 0.9.2342.19200300.100.1.21 NAME 'secretary'
DESC 'RFC1274: DN of secretary'
EQUALITY distinguishedNameMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )
9.3.18. Other Mailbox

The Other Mailbox attribute type specifies values for electronic mailbox types other than X.400 and rfc822.

otherMailbox ATTRIBUTE
WITH ATTRIBUTE-SYNTAX
SEQUENCE {
    mailboxType PrintableString, -- e.g. Telemail
    mailbox IA5String  -- e.g. X378:Joe
}
::= {pilotAttributeType 22}

attributetype ( 0.9.2342.19200300.100.1.22 NAME 'otherMailbox'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.39 )

9.3.19. Last Modified Time

The Last Modified Time attribute type specifies the last time, in UTC time, that an entry was modified. Ideally, this attribute should be maintained by the DSA.

lastModifiedTime ATTRIBUTE
WITH ATTRIBUTE-SYNTAX
uTCTimeSyntax
::= {pilotAttributeType 23}

## Deprecated in favor of modifyTimeStamp
attributetype ( 0.9.2342.19200300.100.1.23 NAME 'lastModifiedTime'
DESC 'RFC1274: time of last modify, replaced by modifyTimestamp'
OBSOLETE
SYNTAX 1.3.6.1.4.1.1466.115.121.1.53
USAGE directoryOperation )

9.3.20. Last Modified By

The Last Modified By attribute specifies the distinguished name of the last user to modify the associated entry. Ideally, this attribute should be maintained by the DSA.

lastModifiedBy ATTRIBUTE
WITH ATTRIBUTE-SYNTAX
distinguishedNameSyntax
::= {pilotAttributeType 24}

## Deprecated in favor of modifiersName
attributetype ( 0.9.2342.19200300.100.1.24 NAME 'lastModifiedBy'
DESC 'RFC1274: last modifier, replaced by modifiersName'
# OBSOLETE
# EQUALITY distinguishedNameMatch
# SYNTAX 1.3.6.1.4.1.1466.115.121.1.12
# USAGE directoryOperation )

# 9.3.21. Domain Component
#
# The Domain Component attribute type specifies a DNS/NRS domain. For
# example, "uk" or "ac".
#
# domainComponent ATTRIBUTE
#     WITH ATTRIBUTE-SYNTAX
#         caseIgnoreIA5StringSyntax
#         SINGLE VALUE
# ::= {pilotAttributeType 25}
#
## (in core.schema)
## attributetype ( 0.9.2342.19200300.100.1.25 NAME ( 'dc' 'domainComponent' )
##   EQUALITY caseIgnoreIA5Match
##   SUBSTR caseIgnoreIA5SubstringsMatch
##   SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 SINGLE-VALUE )

# 9.3.22. DNS ARecord
#
# The A Record attribute type specifies a type A (Address) DNS resource
# record [6] [7].
#
# aRecord ATTRIBUTE
#     WITH ATTRIBUTE-SYNTAX
#     DNSRecordSyntax
# ::= {pilotAttributeType 26}
#
## incorrect syntax?
attributetype ( 0.9.2342.19200300.100.1.26 NAME 'aRecord'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

## missing from RFC1274
## incorrect syntax?
attributetype ( 0.9.2342.19200300.100.1.27 NAME 'mDRecord'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

# 9.3.23. MX Record
#
# The MX Record attribute type specifies a type MX (Mail Exchange) DNS
# resource record [6] [7].
## incorrect syntax!!
attributetype ( 0.9.2342.19200300.100.1.28 NAME 'mXRecord'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

# 9.3.24. NS Record
#
# The NS Record attribute type specifies an NS (Name Server) DNS
# resource record [6] [7].
#
# nSRecord ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# DNSRecordSyntax
# ::= {pilotAttributeType 29}
# ## incorrect syntax!!
attributetype ( 0.9.2342.19200300.100.1.29 NAME 'nSRecord'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

# 9.3.25. SOA Record
#
# The SOA Record attribute type specifies a type SOA (Start of
# Authority) DNS resource record [6] [7].
#
# sOARecord ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# DNSRecordSyntax
# ::= {pilotAttributeType 30}
# ## incorrect syntax!!
attributetype ( 0.9.2342.19200300.100.1.30 NAME 'sOARecord'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

# 9.3.26. CNAME Record
#
# The CNAME Record attribute type specifies a type CNAME (Canonical
# Name) DNS resource record [6] [7].
#
# cNAMERecord ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# IA5StringSyntax
# # := {pilotAttributeType 31}
# ## incorrect syntax!!
# attributetype ( 0.9.2342.19200300.100.1.31 NAME 'cNAMERecord'
# EQUALITY caseIgnoreIA5Match
# SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
# 9.3.27. Associated Domain
# # The Associated Domain attribute type specifies a DNS or NRS domain
# which is associated with an object in the DIT. For example, the entry
# in the DIT with a distinguished name "C=GB, O=University College
# London" would have an associated domain of "UCL.AC.UK. Note that all
# domains should be represented in rfc822 order. See [3] for more
# details of usage of this attribute.
# # associatedDomain ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreIA5StringSyntax
# := {pilotAttributeType 37}
# #attributetype ( 0.9.2342.19200300.100.1.37 NAME 'associatedDomain'
# #EQUALITY caseIgnoreIA5Match
# #SUBSTR caseIgnoreIA5SubstringsMatch
# #SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
# 9.3.28. Associated Name
# # The Associated Name attribute type specifies an entry in the
# # organisational DIT associated with a DNS/NRS domain. See [3] for
# # more details of usage of this attribute.
# # associatedName ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# distinguishedNameSyntax
# := {pilotAttributeType 38}
# # attributetype ( 0.9.2342.19200300.100.1.38 NAME 'associatedName'
# DESC 'RFC1274: DN of entry associated with domain'
# EQUALITY distinguishedNameMatch
# SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )
# 9.3.29. Home postal address
# # The Home postal address attribute type specifies a home postal
# # address for an object. This should be limited to up to 6 lines of 30
# # characters each.
homePostalAddress ATTRIBUTE
WITH ATTRIBUTE-SYNTAX postalAddress MATCHES FOR EQUALITY ::= {pilotAttributeType 39}

attributetype ( 0.9.2342.19200300.100.1.39 NAME 'homePostalAddress'
DESC 'RFC1274: home postal address'
EQUALITY caseIgnoreListMatch
SUBSTR caseIgnoreListSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.41 )

9.3.30. Personal Title

The Personal Title attribute type specifies a personal title for a person. Examples of personal titles are "Ms", "Dr", "Prof" and "Rev".

personalTitle ATTRIBUTE
WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax (SIZE (1 .. ub-personal-title)) ::= {pilotAttributeType 40}

attributetype ( 0.9.2342.19200300.100.1.40 NAME 'personalTitle'
DESC 'RFC1274: personal title'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{256} )

9.3.31. Mobile Telephone Number

The Mobile Telephone Number attribute type specifies a mobile telephone number associated with a person. Attribute values should follow the agreed format for international telephone numbers: i.e., 
"+44 71 123 4567".

mobileTelephoneNumber ATTRIBUTE
WITH ATTRIBUTE-SYNTAX telephoneNumberSyntax ::= {pilotAttributeType 41}

attributetype ( 0.9.2342.19200300.100.1.41 NAME 'mobileTelephoneNumber'
DESC 'RFC1274: mobile telephone number'
EQUALITY telephoneNumberMatch
SUBSTR telephoneNumberSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.50 )
9.3.32. Pager Telephone Number
#
# The Pager Telephone Number attribute type specifies a pager telephone
# number for an object. Attribute values should follow the agreed
# format for international telephone numbers: i.e., "+44 71 123 4567".
#
# pagerTelephoneNumber ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
#   telephoneNumberSyntax
# ::= {pilotAttributeType 42}
#
attributetype ( 0.9.2342.19200300.100.1.42
NAME ( 'pager' 'pagerTelephoneNumber' )
DESC 'RFC1274: pager telephone number'
EQUALITY telephoneNumberMatch
SUBSTR telephoneNumberSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.50 )

9.3.33. Friendly Country Name
#
# The Friendly Country Name attribute type specifies names of countries
# in human readable format. The standard attribute country name must
# be one of the two-letter codes defined in ISO 3166.
#
# friendlyCountryName ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
#   caseIgnoreStringSyntax
# ::= {pilotAttributeType 43}
#
attributetype ( 0.9.2342.19200300.100.1.43
NAME ( 'co' 'friendlyCountryName' )
DESC 'RFC1274: friendly country name'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )

9.3.34. Unique Identifier
#
# The Unique Identifier attribute type specifies a "unique identifier"
# for an object represented in the Directory. The domain within which
# the identifier is unique, and the exact semantics of the identifier,
# are for local definition. For a person, this might be an
# institution-wide payroll number. For an organisational unit, it
# might be a department code.
#
# uniqueIdentifier ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
#   caseIgnoreStringSyntax
# 9.3.35. Organisational Status

# The Organisational Status attribute type specifies a category by
# which a person is often referred to in an organisation. Examples of
# usage in academia might include undergraduate student, researcher,
# lecturer, etc.
#
# A Directory administrator should probably consider carefully the
# distinctions between this and the title and userClass attributes.
#
# organizationalStatus ATTRIBUTE
#    WITH ATTRIBUTE-SYNTAX
#        caseIgnoreStringSyntax
#        (SIZE (1 .. ub-organizational-status))
#    ::= {pilotAttributeType 45}
#    attributetype ( 0.9.2342.19200300.100.1.45 NAME 'organizationalStatus'
#                    DESC 'RFC1274: organizational status'
#                    EQUALITY caseIgnoreMatch
#                    SUBSTR caseIgnoreSubstringsMatch
#                    SYNTAX 1.3.6.1.4.1.1466.115.121.1.15(256) )
#
# 9.3.36. Janet Mailbox

# The Janet Mailbox attribute type specifies an electronic mailbox
# attribute following the syntax specified in the Grey Book of the
# Coloured Book series. This attribute is intended for the convenience
# of U.K users unfamiliar with rfc822 and little-endian mail addresses.
# Entries using this attribute MUST also include an rfc822Mailbox
# attribute.
#
# janetMailbox ATTRIBUTE
#    WITH ATTRIBUTE-SYNTAX
#        caseIgnoreIA5StringSyntax
#        (SIZE (1 .. ub-janet-mailbox))
#    ::= {pilotAttributeType 46}
#    attributetype ( 0.9.2342.19200300.100.1.46 NAME 'janetMailbox'
#                    DESC 'RFC1274: Janet mailbox'
#                    EQUALITY caseIgnoreIA5Match
# 9.3.37. Mail Preference Option
#
# An attribute to allow users to indicate a preference for inclusion of
# their names on mailing lists (electronic or physical). The absence
# of such an attribute should be interpreted as if the attribute was
# present with value "no-list-inclusion". This attribute should be
# interpreted by anyone using the directory to derive mailing lists,
# and its value respected.
#
# mailPreferenceOption ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX ENumerated {no-list-inclusion(0),
#     any-list-inclusion(1), -- may be added to any lists
#     professional-list-inclusion(2)
#     -- may be added to lists
#     -- which the list provider
#     -- views as related to the
#     -- users professional interests, perhaps evaluated
#     -- from the business of the
#     -- organisation or keywords
#     -- in the entry.
# }  rsa
# ::= {pilotAttributeType 47}
#
attributetype ( 0.9.2342.19200300.100.1.47
NAME 'mailPreferenceOption'
DESC 'RFC1274: mail preference option'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 )

# 9.3.38. Building Name
#
# The Building Name attribute type specifies the name of the building
# where an organisation or organisational unit is based.
#
# buildingName ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
#   (SIZE (1 .. ub-building-name))
# ::= {pilotAttributeType 48}
#
attributetype ( 0.9.2342.19200300.100.1.48 NAME 'buildingName'
DESC 'RFC1274: name of building'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
# 9.3.39. DSA Quality

# The DSA Quality attribute type specifies the purported quality of a DSA. It allows a DSA manager to indicate the expected level of availability of the DSA. See [8] for details of the syntax.

# dSAQuality ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX DSAQualitySyntax
# SINGLE VALUE
# ::= {pilotAttributeType 49}

attributetype ( 0.9.2342.19200300.100.1.49 NAME 'dSAQuality'
DESC 'RFC1274: DSA Quality'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.19 SINGLE-VALUE )

# 9.3.40. Single Level Quality

# The Single Level Quality attribute type specifies the purported data quality at the level immediately below in the DIT. See [8] for details of the syntax.

# singleLevelQuality ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX DataQualitySyntax
# SINGLE VALUE
# ::= {pilotAttributeType 50}

attributetype ( 0.9.2342.19200300.100.1.50 NAME 'singleLevelQuality'
DESC 'RFC1274: Single Level Quality'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.13 SINGLE-VALUE )

# 9.3.41. Subtree Minimum Quality

# The Subtree Minimum Quality attribute type specifies the purported minimum data quality for a DIT subtree. See [8] for more discussion and details of the syntax.

# subtreeMinimumQuality ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX DataQualitySyntax
# SINGLE VALUE
# -- Defaults to singleLevelQuality
# ::= {pilotAttributeType 51}

attributetype ( 0.9.2342.19200300.100.1.51 NAME 'subtreeMinimumQuality'
DESC 'RFC1274: Subtree Minimum Quality'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.13 SINGLE-VALUE )
# 9.3.42. Subtree Maximum Quality
#
# The Subtree Maximum Quality attribute type specifies the purported
# maximum data quality for a DIT subtree. See [8] for more discussion
# and details of the syntax.
#
# subtreeMaximumQuality ATTRIBUTE
#    WITH ATTRIBUTE-SYNTAX DataQualitySyntax
#    SINGLE VALUE
#       -- Defaults to singleLevelQuality
#    ::= {pilotAttributeType 52}
#
attributetype ( 0.9.2342.19200300.100.1.52 NAME 'subtreeMaximumQuality'
DESC 'RFC1274: Subtree Maximum Quality'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.13 SINGLE-VALUE )

# 9.3.43. Personal Signature
#
# The Personal Signature attribute type allows for a representation of
# a person's signature. This should be encoded in G3 fax as explained
# in recommendation T.4, with an ASN.1 wrapper to make it compatible
# with an X.400 BodyPart as defined in X.420.
#
# IMPORT G3FacsimileBodyPart FROM { mhs-motis ipms modules
# information-objects }
#
# personalSignature ATTRIBUTE
#    WITH ATTRIBUTE-SYNTAX
#       CHOICE {
#           g3-facsimile [3] G3FacsimileBodyPart
#            -- (SIZE (1 .. ub-personal-signature))
#        }
#    ::= {pilotAttributeType 53}
#
attributetype ( 0.9.2342.19200300.100.1.53 NAME 'personalSignature'
DESC 'RFC1274: Personal Signature (G3 fax)'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.23 )

# 9.3.44. DIT Redirect
#
# The DIT Redirect attribute type is used to indicate that the object
# described by one entry now has a newer entry in the DIT. The entry
# containing the redirection attribute should be expired after a
# suitable grace period. This attribute may be used when an individual
# changes his/her place of work, and thus acquires a new organisational
# DN.
#
# dITRedirect ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
distinguishedNameSyntax ::= {pilotAttributeType 54}

attributetype ( 0.9.2342.19200300.100.1.54 NAME 'dITRedirect'
DESC 'RFC1274: DIT Redirect'
EQUALITY distinguishedNameMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )

# 9.3.45. Audio

# The Audio attribute type allows the storing of sounds in the
# Directory. The attribute uses a u-law encoded sound file as used by
# the "play" utility on a Sun 4. This is an interim format.
#
# audio ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
#    Audio
#        (SIZE (1 .. ub-audio))
# ::= {pilotAttributeType 55}

attributetype ( 0.9.2342.19200300.100.1.55 NAME 'audio'
DESC 'RFC1274: audio (u-law)'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.4{25000} )

# 9.3.46. Publisher of Document

# The Publisher of Document attribute is the person and/or organization
# that published a document.
#
# documentPublisher ATTRIBUTE
# WITH ATTRIBUTE SYNTAX caseIgnoreStringSyntax
# ::= {pilotAttributeType 56}

attributetype ( 0.9.2342.19200300.100.1.56 NAME 'documentPublisher'
DESC 'RFC1274: publisher of document'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )

# 9.4. Generally useful syntaxes

# caseIgnoreIA5StringSyntax ATTRIBUTE-SYNTAX
#    IA5String
#    MATCHES FOR EQUALITY SUBSTRINGS
# # iA5StringSyntax ATTRIBUTE-SYNTAX
# IA5String
# MATCHES FOR EQUALITY SUBSTRINGS
#
#
# -- Syntaxes to support the DNS attributes
#
# DNSRecordSyntax ATTRIBUTE-SYNTAX
#     IA5String
#     MATCHES FOR EQUALITY
#
#
# NRSInformationSyntax ATTRIBUTE-SYNTAX
#     NRSInformation
#     MATCHES FOR EQUALITY
#
#
# NRSInformation ::= SET {
#     [0] Context,
#     [1] Address-space-id,
#     routes [2] SEQUENCE OF SEQUENCE {
#     Route-cost,
#     Addressing-info }
# }
#
#
# 9.5. Upper bounds on length of attribute values
#
#
# ub-document-identifier INTEGER ::= 256
#
# ub-document-location INTEGER ::= 256
#
# ub-document-title INTEGER ::= 256
#
# ub-document-version INTEGER ::= 256
#
# ub-favourite-drink INTEGER ::= 256
#
# ub-host INTEGER ::= 256
#
# ub-information INTEGER ::= 2048
#
# ub-unique-identifier INTEGER ::= 256
#
# ub-personal-title INTEGER ::= 256
#
# ub-photo INTEGER ::= 250000
#
# [back to 8]
# 8. Object Classes
# 8.1. X.500 standard object classes
# A number of generally useful object classes are defined in X.521, and
# these are supported. Refer to that document for descriptions of the
# suggested usage of these object classes. The ASN.1 for these object
# classes is reproduced for completeness in Appendix C.
# 8.2. X.400 standard object classes
# A number of object classes defined in X.400 are supported. Refer to
# X.402 for descriptions of the usage of these object classes. The
# ASN.1 for these object classes is reproduced for completeness in
# Appendix C.
# 8.3. COSINE/Internet object classes
# This section attempts to fuse together the object classes designed
# for use in the COSINE and Internet pilot activities. Descriptions
# are given of the suggested usage of these object classes. The ASN.1
# for these object classes is also reproduced in Appendix C.
# 8.3.1. Pilot Object
# The PilotObject object class is used as a sub-class to allow some
# common, useful attributes to be assigned to entries of all other
# object classes.
#
# pilotObject OBJECT-CLASS
#    SUBCLASS OF top
#    MAY CONTAIN {
#        info,
#        photo,
#        manager,
#        uniqueIdentifier,
#        lastModifiedTime,
#        lastModifiedBy,
#        dITRedirect,
#        audio}
# ::= {pilotObjectClass 3}
#
#objectclass ( 0.9.2342.19200300.100.4.3 NAME 'pilotObject'
#DESC 'RFC1274: pilot object'
#SUP top AUXILIARY
#MAY ( info $ photo $ manager $ uniqueIdentifier $
#lastModifiedTime $ lastModifiedBy $ dITRedirect $ audio )
#)

# 8.3.2. Pilot Person
#
# The PilotPerson object class is used as a sub-class of person, to
# allow the use of a number of additional attributes to be assigned to
# entries of object class person.
#
# pilotPerson OBJECT-CLASS
#    SUBCLASS OF person
#    MAY CONTAIN {
#        userid,
#        textEncodedORAddress,
#        rfc822Mailbox,
#        favouriteDrink,
#        roomNumber,
#        userClass,
#        homeTelephoneNumber,
#        homePostalAddress,
#        secretary,
#        personalTitle,
#        preferredDeliveryMethod,
#        businessCategory,
#        janetMailbox,
#        otherMailbox,
#        mobileTelephoneNumber,
#        pagerTelephoneNumber,
# organizationalStatus,
# mailPreferenceOption,
# personalSignature}
# ::= {pilotObjectClass 4}
#
objectclass ( 0.9.2342.19200300.100.4.4
NAME ( 'pilotPerson' 'newPilotPerson' )
SUP person STRUCTURAL
MAY ( userid $ textEncodedORAddress $ rfc822Mailbox $
favouriteDrink $ roomNumber $ userClass $
homeTelephoneNumber $ homePostalAddress $ secretary $
personalTitle $ preferredDeliveryMethod $ businessCategory $
janetMailbox $ otherMailbox $ mobileTelephoneNumber $
pagerTelephoneNumber $ organizationalStatus $
mailPreferenceOption $ personalSignature )
)

# 8.3.3. Account
#
# The Account object class is used to define entries representing
# computer accounts. The userid attribute should be used for naming
# entries of this object class.
#
# account OBJECT-CLASS
#    SUBCLASS OF top
#    MUST CONTAIN {
#    userid}
#    MAY CONTAIN {
#    description,
#    seeAlso,
#    localityName,
#    organizationName,
#    organizationalUnitName,
#    host}
# ::= {pilotObjectClass 5}
#
objectclass ( 0.9.2342.19200300.100.4.5 NAME 'account'
SUP top STRUCTURAL
MUST userid
MAY ( description $ seeAlso $ localityName $
organizationName $ organizationalUnitName $ host )
)

# 8.3.4. Document
#
# The Document object class is used to define entries which represent
# documents.
document OBJECT-CLASS
    SUBCLASS OF top
    MUST CONTAIN {
        documentIdentifier
    }
    MAY CONTAIN {
        commonName,
        description,
        seeAlso,
        localityName,
        organizationName,
        organizationalUnitName,
        documentTitle,
        documentVersion,
        documentAuthor,
        documentLocation,
        documentPublisher
    }
    ::= {pilotObjectClass 6}

objectclass ( 0.9.2342.19200300.100.4.6 NAME 'document'
    SUP top STRUCTURAL
    MUST documentIdentifier
    MAY ( commonName $ description $ seeAlso $ localityName $ organizationName $ organizationalUnitName $ documentTitle $ documentVersion $ documentAuthor $ documentLocation $ documentPublisher )
)

# 8.3.5. Room
#
# The Room object class is used to define entries representing rooms.
# The commonName attribute should be used for naming pentries of this
# object class.
#
room OBJECT-CLASS
    SUBCLASS OF top
    MUST CONTAIN {
        commonName
    }
    MAY CONTAIN {
        roomNumber,
        description,
        seeAlso,
        telephoneNumber
    }
    ::= {pilotObjectClass 7}

objectclass ( 0.9.2342.19200300.100.4.7 NAME 'room'
    SUP top STRUCTURAL
    MUST commonName
    MAY ( roomNumber $ description $ seeAlso $ telephoneNumber )
)
# 8.3.6. Document Series

# The Document Series object class is used to define an entry which
# represents a series of documents (e.g., The Request For Comments
# papers).
#
# documentSeries OBJECT-CLASS
#    SUBCLASS OF top
#    MUST CONTAIN {
#        commonName}
#    MAY CONTAIN {
#        description,
#        seeAlso,
#        telephoneNumber,
#        localityName,
#        organizationName,
#        organizationalUnitName}
# ::= {pilotObjectClass 9}
#
objectclass ( 0.9.2342.19200300.100.4.9 NAME 'documentSeries'
SUP top STRUCTURAL
MUST commonName
MAY ( description $ seeAlso $ telephonenumber $
localityName $ organizationName $ organizationalUnitName )
)

# 8.3.7. Domain

# The Domain object class is used to define entries which represent DNS
# or NRS domains. The domainComponent attribute should be used for
# naming entries of this object class. The usage of this object class
# is described in more detail in [3].
#
# domain OBJECT-CLASS
#    SUBCLASS OF top
#    MUST CONTAIN {
#        domainComponent}
#    MAY CONTAIN {
#        associatedName,
#        organizationName,
#        organizationalAttributeSet}
# ::= {pilotObjectClass 13}
#
objectclass ( 0.9.2342.19200300.100.4.13 NAME 'domain'
SUP top STRUCTURAL
MUST domainComponent

# 8.3.8. RFC822 Local Part

The RFC822 Local Part object class is used to define entries which represent the local part of RFC822 mail addresses. This treats this part of an RFC822 address as a domain. The usage of this object class is described in more detail in [3].

# rFC822LocalPart OBJECT-CLASS
#    SUBCLASS OF domain
#    MAY CONTAIN {
#        commonName,
#        surname,
#        description,
#        seeAlso,
#        telephoneNumber,
#        postalAttributeSet,
#        telecommunicationAttributeSet
#    ::= {pilotObjectClass 14}
#
objectclass ( 0.9.2342.19200300.100.4.14 NAME 'RFC822LocalPart'
SUP domain STRUCTURAL
MAY ( commonName $ surname $ description $ seeAlso $ telephoneNumber $
physicalDeliveryOfficeName $ postalAddress $ postalCode $
postOfficeBox $ streetAddress $
faxNumber $ internationalISDNNumber $
televisionNumber $ teletexTerminalIdentifier $
telephone $ preferredDeliveryMethod $ destinationIndicator $
registeredAddress $ x121Address )
)

# 8.3.9. DNS Domain

The DNS Domain (Domain Name Server) object class is used to define entries for DNS domains. The usage of this object class is described in more detail in [3].

# dNSDomain OBJECT-CLASS
SUBCLASS OF domain
MAY CONTAIN {
    ARecord,
    MDRecord,
    MXRecord,
    NSRecord,
    SOARecord,
    CNAMERecord}
::= {pilotObjectClass 15}

objectclass ( 0.9.2342.19200300.100.4.15 NAME 'dNSDomain'
SUP domain STRUCTURAL
MAY ( ARecord $ MDRecord $ MXRecord $ NSRecord $
    SOARecord $ CNAMERecord )
)

# 8.3.10. Domain Related Object
#
# The Domain Related Object object class is used to define entries
# which represent DNS/NRS domains which are "equivalent" to an X.500
# domain: e.g., an organisation or organisational unit. The usage of
# this object class is described in more detail in [3].
#
# domainRelatedObject OBJECT-CLASS
#    SUBCLASS OF top
#    MUST CONTAIN {
#        associatedDomain}
#    ::= {pilotObjectClass 17}

objectclass ( 0.9.2342.19200300.100.4.17 NAME 'domainRelatedObject'
DESC 'RFC1274: an object related to a domain'
SUP top AUXILIARY
MUST associatedDomain )

# 8.3.11. Friendly Country
#
# The Friendly Country object class is used to define country entries
# in the DIT. The object class is used to allow friendlier naming of
# countries than that allowed by the object class country. The naming
# attribute of object class country, countryName, has to be a 2 letter
# string defined in ISO 3166.
#
# friendlyCountry OBJECT-CLASS
#    SUBCLASS OF country
#    MUST CONTAIN {
#        friendlyCountryName}
#    ::= {pilotObjectClass 18}
#
objectclass ( 0.9.2342.19200300.100.4.18 NAME 'friendlyCountry'
SUP country STRUCTURAL
MUST friendlyCountryName )

# 8.3.12. Simple Security Object
#
# The Simple Security Object object class is used to allow an entry to
# have a userPassword attribute when an entry's principal object
# classes do not allow userPassword as an attribute type.
#
# simpleSecurityObject OBJECT-CLASS
#   SUBCLASS OF top
#   MUST CONTAIN { userPassword }
#   ::= {pilotObjectClass 19}
#
## (in core.schema)
## objectclass ( 0.9.2342.19200300.100.4.19 NAME 'simpleSecurityObject'
##   SUP top AUXILIARY
##   MUST userPassword )

# 8.3.13. Pilot Organization
#
# The PilotOrganization object class is used as a sub-class of
# organization and organizationalUnit to allow a number of additional
# attributes to be assigned to entries of object classes organization
# and organizationalUnit.
#
# pilotOrganization OBJECT-CLASS
#   SUBCLASS OF organization, organizationalUnit
#   MAY CONTAIN { buildingName }
#   ::= {pilotObjectClass 20}
#
objectclass ( 0.9.2342.19200300.100.4.20 NAME 'pilotOrganization'
SUP ( organization $ organizationalUnit ) STRUCTURAL
MAY buildingName )

# 8.3.14. Pilot DSA
#
# The PilotDSA object class is used as a sub-class of the dsa object
# class to allow additional attributes to be assigned to entries for
# DSAs.
#
# pilotDSA OBJECT-CLASS
#   SUBCLASS OF dsa
#   MUST CONTAIN { dSAQuality }
#  ::= {pilotObjectClass 21}
#
objectclass ( 0.9.2342.19200300.100.4.21 NAME 'pilotDSA'
SUP dsa STRUCTURAL
MAY dSAQuality )

# 8.3.15. Quality Labelled Data
#
# The Quality Labelled Data object class is used to allow the
# assignment of the data quality attributes to subtrees in the DIT.
#
# See [8] for more details.
#
# qualityLabelledData OBJECT-CLASS
#   SUBCLASS OF top
#   MUST CONTAIN {
#     dSAQuality}
#   MAY CONTAIN {
#     subtreeMinimumQuality,
#     subtreeMaximumQuality}
#  ::= {pilotObjectClass 22}
objectclass ( 0.9.2342.19200300.100.4.22 NAME 'qualityLabelledData'
SUP top AUXILIARY
MUST dsaQuality
MAY ( subtreeMinimumQuality $ subtreeMaximumQuality )
)

# References
#
#
#
#
#
# RFC 1034, USC/Information Sciences Institute, November 1987.
#
# [7] Mockapetris, P., "Domain Names - Implementation and
# Specification, RFC 1035, USC/Information Sciences Institute,
# November 1987.
#
# [8] Kille, S., "Handling QOS (Quality of service) in the
#
# # APPENDIX C - Summary of all Object Classes and Attribute Types
# # -- Some Important Object Identifiers
# #
# # data OBJECT IDENTIFIER ::= {ccitt 9}
# # pss OBJECT IDENTIFIER ::= {data 2342}
# # ucl OBJECT IDENTIFIER ::= {pss 19200300}
# # pilot OBJECT IDENTIFIER ::= {ucl 100}
# #
# # pilotAttributeType OBJECT IDENTIFIER ::= {pilot 1}
# # pilotAttributeSyntax OBJECT IDENTIFIER ::= {pilot 3}
# # pilotObjectClass OBJECT IDENTIFIER ::= {pilot 4}
# # pilotGroups OBJECT IDENTIFIER ::= {pilot 10}
# #
# # iA5StringSyntax OBJECT IDENTIFIER ::= {pilotAttributeSyntax 4}
# # caseIgnoreIA5StringSyntax OBJECT IDENTIFIER ::= 
# #   {pilotAttributeSyntax 5}
# #
# # -- Standard Object Classes
# #
# # top OBJECT-CLASS
# #   MUST CONTAIN {
# #       objectClass}
# #   ::= {objectClass 0}
# #
# # alias OBJECT-CLASS
# #   SUBCLASS OF top
# #   MUST CONTAIN {
# #       aliasedObjectName}
# #   ::= {objectClass 1}
# #
# # country OBJECT-CLASS
# #   SUBCLASS OF top
# #   MUST CONTAIN {
# #       countryName}
# MAY CONTAIN {
#   description,
#   searchGuide}
# ::= {objectClass 2}
#
#
# locality OBJECT-CLASS
# SUBCLASS OF top
# MAY CONTAIN {
#   description,
#   localityName,
#   stateOrProvinceName,
#   searchGuide,
#   seeAlso,
#   streetAddress}
# ::= {objectClass 3}
#
#
# organization OBJECT-CLASS
# SUBCLASS OF top
# MUST CONTAIN {
#   organizationName}
# MAY CONTAIN {
#   organizationalAttributeSet}
# ::= {objectClass 4}
#
#
# organizationalUnit OBJECT-CLASS
# SUBCLASS OF top
# MUST CONTAIN {
#   organizationalUnitName}
# MAY CONTAIN {
#   organizationalAttributeSet}
# ::= {objectClass 5}
#
#
# person OBJECT-CLASS
# SUBCLASS OF top
# MUST CONTAIN {
#   commonName,
#   surname}
# MAY CONTAIN {
#   description,
#   seeAlso,
#   telephoneNumber,
#   userPassword}
# ::= {objectClass 6}
#
# organizationalPerson OBJECT-CLASS
#    SUBCLASS OF person
#    MAY CONTAIN {
#        localeAttributeSet,
#        organizationalUnitName,
#        postalAttributeSet,
#        telecommunicationAttributeSet,
#        title
#    ::= {objectClass 7}
#
#
# organizationalRole OBJECT-CLASS
#    SUBCLASS OF top
#    MUST CONTAIN {
#        commonName
#    }
#    MAY CONTAIN {
#        description,
#        localeAttributeSet,
#        organizationalUnitName,
#        postalAttributeSet,
#        preferredDeliveryMethod,
#        roleOccupant,
#        seeAlso,
#        telecommunicationAttributeSet
#    ::= {objectClass 8}
#
#
# groupOfNames OBJECT-CLASS
#    SUBCLASS OF top
#    MUST CONTAIN {
#        commonName,
#        member
#    }
#    MAY CONTAIN {
#        description,
#        organizationName,
#        organizationalUnitName,
#        owner,
#        seeAlso,
#        businessCategory
#    ::= {objectClass 9}
#
#
# residentialPerson OBJECT-CLASS
#    SUBCLASS OF person
#    MUST CONTAIN {
#        localityName
#    }
#    MAY CONTAIN {
localeAttributeSet,
postalAttributeSet,
pREFERREDDeliveryMethod,
telecommunicationAttributeSet,
businessCategory]
::= {objectClass 10}

applicationProcess OBJECT-CLASS
  SUBCLASS OF top
  MUST CONTAIN {
    commonName
  }
  MAY CONTAIN {
    description,
    localityName,
    organizationalUnitName,
    seeAlso
  }
::= {objectClass 11}

applicationEntity OBJECT-CLASS
  SUBCLASS OF top
  MUST CONTAIN {
    commonName,
    presentationAddress
  }
  MAY CONTAIN {
    description,
    localityName,
    organizationName,
    organizationalUnitName,
    seeAlso,
    supportedApplicationContext
  }
::= {objectClass 12}

dSA OBJECT-CLASS
  SUBCLASS OF applicationEntity
  MAY CONTAIN {
    knowledgeInformation
  }
::= {objectClass 13}

device OBJECT-CLASS
  SUBCLASS OF top
  MUST CONTAIN {
    commonName
  }
  MAY CONTAIN {
    description,
localityName,
organizationName,
organizationalUnitName,
owner,
seeAlso,
serialNumber
 ::= {objectClass 14}

# strongAuthenticationUser OBJECT-CLASS
# SUBCLASS OF top
# MUST CONTAIN { #
# userCertificate}
# ::= {objectClass 15}

# certificationAuthority OBJECT-CLASS
# SUBCLASS OF top
# MUST CONTAIN { #
# cACertificate,
# certificateRevocationList,
# authorityRevocationList}
# MAY CONTAIN { #
# crossCertificatePair}
# ::= {objectClass 16}

# -- Standard MHS Object Classes
#
# mhsDistributionList OBJECT-CLASS
# SUBCLASS OF top
# MUST CONTAIN { #
# commonName,
# mhsDLSubmitPermissions,
# mhsORAddresses}
# MAY CONTAIN { #
# description,
# organizationName,
# organizationalUnitName,
# owner,
# seeAlso,
# mhsDeliverableContentTypes,
# mhsdeliverableEits,
# mhsDLMembers,
# mhsPreferredDeliveryMethods}
# ::= {mhsObjectClass 0}

# mhsMessageStore OBJECT-CLASS
# SUBCLASS OF applicationEntity
# MAY CONTAIN [ 
#   description, 
#   owner, 
#   mhsSupportedOptionalAttributes, 
#   mhsSupportedAutomaticActions, 
#   mhsSupportedContentTypes] 
# ::= {mhsObjectClass 1} 
#
#
# mhsMessageTransferAgent OBJECT-CLASS
# SUBCLASS OF applicationEntity
# MAY CONTAIN [ 
#   description, 
#   owner, 
#   mhsDeliverableContentLength] 
# ::= {mhsObjectClass 2} 
#
#
# mhsOrganizationalUser OBJECT-CLASS
# SUBCLASS OF organizationalPerson
# MUST CONTAIN [ 
#   mhsORAddresses] 
# MAY CONTAIN [ 
#   mhsDeliverableContentLength, 
#   mhsDeliverableContentTypes, 
#   mhsDeliverableEits, 
#   mhsMessageStoreName, 
#   mhsPreferredDeliveryMethods ] 
# ::= {mhsObjectClass 3} 
#
#
# mhsResidentialUser OBJECT-CLASS
# SUBCLASS OF residentialPerson
# MUST CONTAIN [ 
#   mhsORAddresses] 
# MAY CONTAIN [ 
#   mhsDeliverableContentLength, 
#   mhsDeliverableContentTypes, 
#   mhsDeliverableEits, 
#   mhsMessageStoreName, 
#   mhsPreferredDeliveryMethods ] 
# ::= {mhsObjectClass 4} 
#
#
# mhsUserAgent OBJECT-CLASS
# SUBCLASS OF applicationEntity
# MAY CONTAIN [
# mhsDeliverableContentLength,
# mhsDeliverableContentTypes,
# mhsDeliverableEits,
# mhsORAddresses,
# owner}
# ::= {mhsObjectClass 5}
#
#
#
# -- Pilot Object Classes
#
# pilotObject OBJECT-CLASS
# SUBCLASS OF top
# MAY CONTAIN {
#     info,
#     photo,
#     manager,
#     uniqueIdentifier,
#     lastModifiedTime,
#     lastModifiedBy,
#     dITRedirect,
#     audio}
# ::= {pilotObjectClass 3}
# pilotPerson OBJECT-CLASS
# SUBCLASS OF person
# MAY CONTAIN {
#     userid,
#     textEncodedORAddress,
#     rfc822Mailbox,
#     favouriteDrink,
#     roomNumber,
#     userClass,
#     homeTelephoneNumber,
#     homePostalAddress,
#     secretary,
#     personalTitle,
#     preferredDeliveryMethod,
#     businessCategory,
#     janetMailbox,
#     otherMailbox,
#     mobileTelephoneNumber,
#     pagerTelephoneNumber,
#     organizationalStatus,
#     mailPreferenceOption,
#     personalSignature }
# ::= {pilotObjectClass 4}
#
# account OBJECT-CLASS
# SUBCLASS OF top
# MUST CONTAIN {
#     userid}
# MAY CONTAIN {
#     description,
#     seeAlso,
#     localityName,
#     organizationName,
#     organizationalUnitName,
#     host}
# ::= {pilotObjectClass 5}
#
#
# document OBJECT-CLASS
# SUBCLASS OF top
# MUST CONTAIN {
#     documentIdentifier}
# MAY CONTAIN {
#     commonName,
#     description,
#     seeAlso,
#     localityName,
#     organizationName,
#     organizationalUnitName,
#     documentTitle,
#     documentVersion,
#     documentAuthor,
#     documentLocation,
#     documentPublisher}
# ::= {pilotObjectClass 6}
#
#
# room OBJECT-CLASS
# SUBCLASS OF top
# MUST CONTAIN {
#     commonName}
# MAY CONTAIN {
#     roomNumber,
#     description,
#     seeAlso,
#     telephoneNumber}
# ::= {pilotObjectClass 7}
#
#
# documentSeries OBJECT-CLASS
# SUBCLASS OF top
# MUST CONTAIN {
#    commonName
#}
# MAY CONTAIN {
#    description,
#    seeAlso,
#    telephoneNumber,
#    localityName,
#    organizationName,
#    organizationalUnitName
#} ::= {pilotObjectClass 9}

#
# domain OBJECT-CLASS
# SUBCLASS OF top
# MUST CONTAIN {
#    domainComponent
#}
# MAY CONTAIN {
#    associatedName,
#    organizationName,
#    organizationalAttributeSet
#} ::= {pilotObjectClass 13}

#
# rFC822localPart OBJECT-CLASS
# SUBCLASS OF domain
# MAY CONTAIN {
#    commonName,
#    surname,
#    description,
#    seeAlso,
#    telephoneNumber,
#    postalAttributeSet,
#    telecommunicationAttributeSet
#} ::= {pilotObjectClass 14}

#
# dNSDomain OBJECT-CLASS
# SUBCLASS OF domain
# MAY CONTAIN {
#    ARecord,
#    MDRecord,
#    MXRecord,
#    NSRecord,
#    SOARecord,
#    CNAMERecord
#} ::= {pilotObjectClass 15}
# domainRelatedObject OBJECT-CLASS
#    SUBCLASS OF top
#    MUST CONTAIN {
#        associatedDomain}
#    ::= {pilotObjectClass 17}
#
# friendlyCountry OBJECT-CLASS
#    SUBCLASS OF country
#    MUST CONTAIN {
#        friendlyCountryName}
#    ::= {pilotObjectClass 18}
#
# simpleSecurityObject OBJECT-CLASS
#    SUBCLASS OF top
#    MUST CONTAIN {
#        userPassword}
#    ::= {pilotObjectClass 19}
#
# pilotOrganization OBJECT-CLASS
#    SUBCLASS OF organization, organizationalUnit
#    MAY CONTAIN {
#        buildingName}
#    ::= {pilotObjectClass 20}
#
# pilotDSA OBJECT-CLASS
#    SUBCLASS OF dsa
#    MUST CONTAIN {
#        dSAQuality}
#    ::= {pilotObjectClass 21}
#
# qualityLabelledData OBJECT-CLASS
#    SUBCLASS OF top
#    MUST CONTAIN {
#        dSAQuality}
#    MAY CONTAIN {
#        subtreeMinimumQuality,
#        subtreeMaximumQuality}
#    ::= {pilotObjectClass 22}
#
#
# -- Standard Attribute Types
# objectClass ObjectClass
# ::= {attributeType 0}
#
#
# aliasedObjectName AliasedObjectName
# ::= {attributeType 1}
#
#
# knowledgeInformation ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX caseIgnoreString
# ::= {attributeType 2}
#
#
# commonName ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
# (SIZE (1..ub-common-name))
# ::= {attributeType 3}
#
#
# surname ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
# (SIZE (1..ub-surname))
# ::= {attributeType 4}
#
#
# serialNumber ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX printableStringSyntax
# (SIZE (1..ub-serial-number))
# ::= {attributeType 5}
#
#
# countryName ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX PrintableString
# (SIZE (1..ub-country-code))
# SINGLE VALUE
# ::= {attributeType 6}
#
#
# localityName ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
# (SIZE (1..ub-locality-name))
# ::= {attributeType 7}
#
#
# stateOrProvinceName ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
# (SIZE (1..ub-state-name))
# ::= {attributeType 8}
#
#
# streetAddress ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
#   (SIZE (1..ub-street-address))
#   ::= {attributeType 9}
#
#
# organizationName ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
#   (SIZE (1..ub-organization-name))
#   ::= {attributeType 10}
#
#
# organizationalUnitName ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
#   (SIZE (1..ub-organizational-unit-name))
#   ::= {attributeType 11}
#
#
# title ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
#   (SIZE (1..ub-title))
#   ::= {attributeType 12}
#
#
# description ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
#   (SIZE (1..ub-description))
#   ::= {attributeType 13}
#
#
# searchGuide ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX Guide
#   ::= {attributeType 14}
#
#
# businessCategory ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
#   (SIZE (1..ub-business-category))
#   ::= {attributeType 15}
#
#
# postalAddress ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX PostalAddress
#   MATCHES FOR EQUALITY
#   ::= {attributeType 16}
# postalCode ATTRIBUTE
#     WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
#     (SIZE (1..ub-postal-code))
#     ::= {attributeType 17}
#
#
# postOfficeBox ATTRIBUTE
#     WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
#     (SIZE (1..ub-post-office-box))
#     ::= {attributeType 18}
#
#
# physicalDeliveryOfficeName ATTRIBUTE
#     WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
#     (SIZE (1..ub-physical-office-name))
#     ::= {attributeType 19}
#
#
# telephoneNumber ATTRIBUTE
#     WITH ATTRIBUTE-SYNTAX telephoneNumberSyntax
#     (SIZE (1..ub-telephone-number))
#     ::= {attributeType 20}
#
#
# telexNumber ATTRIBUTE
#     WITH ATTRIBUTE-SYNTAX TelexNumber
#     (SIZE (1..ub-telex))
#     ::= {attributeType 21}
#
#
# teletexTerminalIdentifier ATTRIBUTE
#     WITH ATTRIBUTE-SYNTAX TeletexTerminalIdentifier
#     (SIZE (1..ub-teletex-terminal-id))
#     ::= {attributeType 22}
#
#
# facsimileTelephoneNumber ATTRIBUTE
#     WITH ATTRIBUTE-SYNTAX FacsimileTelephoneNumber
#     ::= {attributeType 23}
#
#
# x121Address ATTRIBUTE
#     WITH ATTRIBUTE-SYNTAX NumericString
#     (SIZE (1..ub-x121-address))
#     ::= {attributeType 24}
# internationalISDNNumber ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX NumericString
# (SIZE (1..ub-isdn-address))
# ::= {attributeType 25}
#
#
# registeredAddress ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX PostalAddress
# ::= {attributeType 26}
#
#
# destinationIndicator ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX PrintableString
# (SIZE (1..ub-destination-indicator))
# MATCHES FOR EQUALITY SUBSTRINGS
# ::= {attributeType 27}
#
#
# preferredDeliveryMethod ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX deliveryMethod
# ::= {attributeType 28}
#
#
# presentationAddress ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX PresentationAddress
# MATCHES FOR EQUALITY
# ::= {attributeType 29}
#
#
# supportedApplicationContext ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX objectIdentifierSyntax
# ::= {attributeType 30}
#
#
# member ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX distinguishedNameSyntax
# ::= {attributeType 31}
#
#
# owner ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX distinguishedNameSyntax
# ::= {attributeType 32}
#
#
# roleOccupant ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX distinguishedNameSyntax
# ::= {attributeType 33}
# seeAlso ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX distinguishedNameSyntax
# ::= {attributeType 34}
#
#
# userPassword ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX Userpassword
# ::= {attributeType 35}
#
#
# userCertificate ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX UserCertificate
# ::= {attributeType 36}
#
#
# cACertificate ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX cACertificate
# ::= {attributeType 37}
#
#
# authorityRevocationList ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX AuthorityRevocationList
# ::= {attributeType 38}
#
#
# certificateRevocationList ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX CertificateRevocationList
# ::= {attributeType 39}
#
#
# crossCertificatePair ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX CrossCertificatePair
# ::= {attributeType 40}
#
#
# -- Standard MHS Attribute Types
#
# mhsDeliverableContentLength ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX integer
# ::= {mhsAttributeType 0}
#
#
# mhsDeliverableContentTypes ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX oID
# ::= {mhsAttributeType 1}
#
#
# mhsDeliverableEits ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX oID
# ::= {mhsAttributeType 2}
#
#
# mhsDLMembers ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX oRName
# ::= {mhsAttributeType 3}
#
#
# mhsDLSubmitPermissions ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX dLSubmitPermission
# ::= {mhsAttributeType 4}
#
#
# mhsMessageStoreName ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX dN
# ::= {mhsAttributeType 5}
#
#
# mhsORAddresses ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX oRAddress
# ::= {mhsAttributeType 6}
#
#
# mhsPreferredDeliveryMethods ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX deliveryMethod
# ::= {mhsAttributeType 7}
#
#
# mhsSupportedAutomaticActions ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX oID
# ::= {mhsAttributeType 8}
#
#
# mhsSupportedContentTypes ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX oID
# ::= {mhsAttributeType 9}
#
#
# mhsSupportedOptionalAttributes ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX oID
# ::= {mhsAttributeType 10}
#
#
# -- Pilot Attribute Types
#
#
# userid ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#     caseIgnoreStringSyntax
#     (SIZE (1 .. ub-user-identifier))
# ::= {pilotAttributeType 1}
#
#
# textEncodedORAddress ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#     caseIgnoreStringSyntax
#     (SIZE (1 .. ub-text-encoded-or-address))
# ::= {pilotAttributeType 2}
#
#
# rfc822Mailbox ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#     caseIgnoreIA5StringSyntax
#     (SIZE (1 .. ub-rfc822-mailbox))
# ::= {pilotAttributeType 3}
#
#
# info ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#     caseIgnoreStringSyntax
#     (SIZE (1 .. ub-information))
# ::= {pilotAttributeType 4}
#
#
# favouriteDrink ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#     caseIgnoreStringSyntax
#     (SIZE (1 .. ub-favourite-drink))
# ::= {pilotAttributeType 5}
#
#
# roomNumber ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#     caseIgnoreStringSyntax
#     (SIZE (1 .. ub-room-number))
# ::= {pilotAttributeType 6}
#
#
# photo ATTRIBUTE
WITH ATTRIBUTE-SYNTAX
CHOICE {
    g3-facsimile [3] G3FacsimileBodyPart
}
(SIZE (1 .. ub-photo))
::= {pilotAttributeType 7}

userClass ATTRIBUTE
WITH ATTRIBUTE-SYNTAX
    caseIgnoreStringSyntax
    (SIZE (1 .. ub-user-class))
::= {pilotAttributeType 8}

host ATTRIBUTE
WITH ATTRIBUTE-SYNTAX
    caseIgnoreStringSyntax
    (SIZE (1 .. ub-host))
::= {pilotAttributeType 9}

manager ATTRIBUTE
WITH ATTRIBUTE-SYNTAX
    distinguishedNameSyntax
::= {pilotAttributeType 10}

documentIdentifier ATTRIBUTE
WITH ATTRIBUTE-SYNTAX
    caseIgnoreStringSyntax
    (SIZE (1 .. ub-document-identifier))
::= {pilotAttributeType 11}

documentTitle ATTRIBUTE
WITH ATTRIBUTE-SYNTAX
    caseIgnoreStringSyntax
    (SIZE (1 .. ub-document-title))
::= {pilotAttributeType 12}

documentVersion ATTRIBUTE
WITH ATTRIBUTE-SYNTAX
    caseIgnoreStringSyntax
    (SIZE (1 .. ub-document-version))
::= {pilotAttributeType 13}
# documentAuthor ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#       distinguishedNameSyntax
#   ::= {pilotAttributeType 14}
#
#
# documentLocation ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#       caseIgnoreStringSyntax
#       (SIZE (1 .. ub-document-location))
#   ::= {pilotAttributeType 15}
#
#
# homeTelephoneNumber ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#       telephoneNumberSyntax
#   ::= {pilotAttributeType 20}
#
#
# secretary ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#       distinguishedNameSyntax
#   ::= {pilotAttributeType 21}
#
#
# otherMailbox ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#       SEQUENCE {
#           mailboxType PrintableString, -- e.g. Telemail
#           mailbox IA5String -- e.g. X378:Joe
#       }
#   ::= {pilotAttributeType 22}
#
#
# lastModifiedTime ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#       uTCTimeSyntax
#   ::= {pilotAttributeType 23}
#
#
# lastModifiedBy ATTRIBUTE
#   WITH ATTRIBUTE-SYNTAX
#       distinguishedNameSyntax
#   ::= {pilotAttributeType 24}
#
#
# domainComponent ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreIA5StringSyntax
# SINGLE VALUE
# ::= {pilotAttributeType 25}
#
#
# aRecord ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# DNSRecordSyntax
# ::= {pilotAttributeType 26}
#
#
# mXRecord ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# DNSRecordSyntax
# ::= {pilotAttributeType 28}
#
#
# nSRecord ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# DNSRecordSyntax
# ::= {pilotAttributeType 29}
#
#
# sOARecord ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# DNSRecordSyntax
# ::= {pilotAttributeType 30}
#
#
# cNAMERecord ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# iA5StringSyntax
# ::= {pilotAttributeType 31}
#
#
# associatedDomain ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreIA5StringSyntax
# ::= {pilotAttributeType 37}
#
#
# associatedName ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# distinguishedNameSyntax
# ::= {pilotAttributeType 38}
#
#
# homePostalAddress ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# postalAddress MATCHES FOR EQUALITY
# ::= {pilotAttributeType 39}
#
# personalTitle ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreStringSyntax
# (SIZE (1 .. ub-personal-title))
# ::= {pilotAttributeType 40}
#
# mobileTelephoneNumber ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# telephoneNumberSyntax
# ::= {pilotAttributeType 41}
#
# pagerTelephoneNumber ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# telephoneNumberSyntax
# ::= {pilotAttributeType 42}
#
# friendlyCountryName ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreStringSyntax
# ::= {pilotAttributeType 43}
#
# uniqueIdentifier ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreStringSyntax
# (SIZE (1 .. ub-unique-identifier))
# ::= {pilotAttributeType 44}
#
# organizationalStatus ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreStringSyntax
# (SIZE (1 .. ub-organizational-status))
# ::= {pilotAttributeType 45}
#
# janetMailbox ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
# caseIgnoreIA5StringSyntax
mailPreferenceOption ATTRIBUTE
   WITH ATTRIBUTE-SYNTAX ENUMERATED {
      no-list-inclusion(0),
      any-list-inclusion(1), -- may be added to any lists
      professional-list-inclusion(2)
      -- may be added to lists
      -- which the list provider
      -- views as related to the
      -- users professional inter-
      -- ests, perhaps evaluated
      -- from the business of the
      -- organisation or keywords
      -- in the entry.
   }
   ::= {pilotAttributeType 47}

buildingName ATTRIBUTE
   WITH ATTRIBUTE-SYNTAX caseIgnoreStringSyntax
   (SIZE (1 .. ub-building-name))
   ::= {pilotAttributeType 48}

dSAQuality ATTRIBUTE
   WITH ATTRIBUTE-SYNTAX DSAQualitySyntax
   SINGLE VALUE
   ::= {pilotAttributeType 49}

singleLevelQuality ATTRIBUTE
   WITH ATTRIBUTE-SYNTAX DataQualitySyntax
   SINGLE VALUE

subtreeMinimumQuality ATTRIBUTE
   WITH ATTRIBUTE-SYNTAX DataQualitySyntax
   SINGLE VALUE
   -- Defaults to singleLevelQuality
   ::= {pilotAttributeType 51}

subtreeMaximumQuality ATTRIBUTE
   WITH ATTRIBUTE-SYNTAX DataQualitySyntax
# SINGLE VALUE
# -- Defaults to singleLevelQuality
# ::= {pilotAttributeType 52}
#
#
# personalSignature ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
#  CHOICE {
#   g3-facsimile [3] G3FacsimileBodyPart
#  }
#  (SIZE (1 .. ub-personal-signature))
# ::= {pilotAttributeType 53}
#
#
# dITRedirect ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
distinguishedNameSyntax
# ::= {pilotAttributeType 54}
#
#
# audio ATTRIBUTE
# WITH ATTRIBUTE-SYNTAX
#  Audio
#  (SIZE (1 .. ub-audio))
# ::= {pilotAttributeType 55}
#
#
# documentPublisher ATTRIBUTE
# WITH ATTRIBUTE SYNTAX caseIgnoreStringSyntax
# ::= {pilotAttributeType 56}
#
#
# -- Generally useful syntaxes
#
#
# caseIgnoreIA5StringSyntax ATTRIBUTE-SYNTAX
#  IA5String
#  MATCHES FOR EQUALITY SUBSTRINGS
#
#
# iA5StringSyntax ATTRIBUTE-SYNTAX
#  IA5String
#  MATCHES FOR EQUALITY SUBSTRINGS
#
#
# -- Syntaxes to support the DNS attributes
#
# DNSRecordSyntax ATTRIBUTE-SYNTAX
# IA5String
# MATCHES FOR EQUALITY
#
#
# NRSInformationSyntax ATTRIBUTE-SYNTAX
# NRSInformation
# MATCHES FOR EQUALITY
#
#
NRSInformation ::= SET {
    [0] Context,
    [1] Address-space-id,
    routes [2] SEQUENCE OF SEQUENCE {
        Route-cost,
        Addressing-info
    }
}
#
#
-- Upper bounds on length of attribute values
#
#
# ub-document-identifier INTEGER ::= 256
# ub-document-location INTEGER ::= 256
# ub-document-title INTEGER ::= 256
# ub-document-version INTEGER ::= 256
# ub-favourite-drink INTEGER ::= 256
# ub-host INTEGER ::= 256
# ub-information INTEGER ::= 2048
# ub-unique-identifier INTEGER ::= 256
# ub-personal-title INTEGER ::= 256
# ub-photo INTEGER ::= 250000
# ub-rfc822-mailbox INTEGER ::= 256
# ub-room-number INTEGER ::= 256
# ub-text-or-address INTEGER ::= 256
# ub-user-class INTEGER ::= 256
# ub-user-identifier INTEGER ::= 256
#
# ub-organizational-status INTEGER ::= 256
#
# ub-janet-mailbox INTEGER ::= 256
#
# ub-building-name INTEGER ::= 256
#
# ub-personal-signature ::= 50000
#
# ub-audio INTEGER ::= 250000
#
# [remainder of memo trimmed]

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/cosine.schema

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# $OpenLDAP$
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## top-level directory of the distribution or, alternatively, at
##
##
# OpenLDAP Project's directory schema items
#
# depends upon:
#core.schema
#cosine.schema
#inetorgperson.schema
#
# These are provided for informational purposes only.
#
# This openldap.ldif file is provided as a demonstration of how to
# convert a *.schema file into *.ldif format. The key points:
# In LDIF, a blank line terminates an entry. Blank lines in a *.schema
# file should be replaced with a single '#' to turn them into
# comments, or they should just be removed.
# In addition to the actual schema directives, the file needs a small
# header to make it a valid LDAP entry. This header must provide the
# dn of the entry, the objectClass, and the cn, as shown here:
#
# dn: cn=openldap,cn=schema,cn=config
objectClass: olcSchemaConfig
cn: openldap  
#
# The schema directives need to be changed to LDAP Attributes.
# First a basic string substitution can be done on each of the keywords:
#   objectIdentifier -&gt; olcObjectIdentifier:
#   objectClass   -&gt; olcObjectClasses:
#   attributeType -&gt; olcAttributeTypes:
# Then leading whitespace must be fixed. The slapd.conf format allows
# tabs or spaces to denote line continuation, while LDIF only allows
# the space character.
# Also slapd.conf preserves the continuation character, while LDIF strips
# it out. So a single TAB/SPACE in slapd.conf must be replaced with
# two SPACES in LDIF, otherwise the continued text may get joined as
# a single word.
# The directives must be listed in a proper sequence:
# All olcObjectIdentifiers must be first, so they may be referenced by
# any following definitions.
# All olcAttributeTypes must be next, so they may be referenced by any
# following objectClass definitions.
# All olcObjectClasses must be after the olcAttributeTypes.
# And of course, any superior must occur before anything that inherits
# from it.
#
olcObjectIdentifier: OpenLDAProot 1.3.6.1.4.1.4203  
#
olcObjectIdentifier: OpenLDAP OpenLDAProot:1
olcObjectIdentifier: OpenLDAPattributeType OpenLDAP:3
olcObjectIdentifier: OpenLDAPobjectClass OpenLDAP:4  
#
olcObjectClasses: ( OpenLDAPobjectClass:3
    NAME 'OpenLDAPorg'
    DESC 'OpenLDAP Organizational Object'
    SUP organization
    MAY ( buildingName $ displayName $ labeledURI ) )
#
olcObjectClasses: ( OpenLDAPobjectClass:4
    NAME 'OpenLDAPou'
    DESC 'OpenLDAP Organizational Unit Object'
    SUP organizationalUnit
    MAY ( buildingName $ displayName $ labeledURI $ o ) )
#
olcObjectClasses: (OpenLDAPobjectClass:5
NAME 'OpenLDAPperson'
DESC 'OpenLDAP Person'
SUP (pilotPerson $ inetOrgPerson )
MUST (uid $ cn )
MAY (givenName $ labeledURI $ o ) )
#
olcObjectClasses: (OpenLDAPobjectClass:6
NAME 'OpenLDAPdisplayableObject'
DESC 'OpenLDAP Displayable Object'
AUXILIARY
MAY displayName )

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-
r0/etc/openldap/schema/openldap.ldif
No license file was found, but licenses were detected in source scan.

# corba.ldif -- Corba Object Schema
# depends upon core.ldif
# $OpenLDAP$
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#
# From RFC 2714 [portions trimmed]:
# Schema for Representing CORBA Object References in an LDAP Directory
#
# This file was automatically generated from corba.schema; see that file
# for complete references.
#
objectClass: olcSchemaConfig
cn: corba
olcAttributeTypes: {0}(1.3.6.1.4.1.42.2.27.4.1.14 NAME 'corbaIor' DESC 'Stringified interoperable object reference of a CORBA object' EQUALITY caseIgnoreI}
A5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 SINGLE-VALUE )
olcAttributeTypes: {0}( 1.3.6.1.4.1.42.2.27.4.1.15 NAME 'corbaRepositoryId' DESC 'Repository ids of interfaces implemented by a CORBA object' EQUALITY caseExactMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )
olcObjectClasses: {0}( 1.3.6.1.4.1.42.2.27.4.2.10 NAME 'corbaContainer' DESC 'Container for a CORBA object' SUP top STRUCTURAL MUST cn )
olcObjectClasses: {1}( 1.3.6.1.4.1.42.2.27.4.2.9 NAME 'corbaObject' DESC 'CORBA object representation' SUP top ABSTRACT MAY ( corbaRepositoryId $ description )
olcObjectClasses: {2}( 1.3.6.1.4.1.42.2.27.4.2.11 NAME 'corbaObjectReference' DESC 'CORBA interoperable object reference' SUP corbaObject AUXILIARY MUST corbaId )

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* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/corba.ldif
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# java.ldif -- Java Object Schema
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# Java Object Schema (defined in RFC 2713)
#depends upon core.ldif
#
# This file was automatically generated from java.schema; see that file
# for complete references.
#
dn: cn=java,cn=schema,cn=config
objectClass: olcSchemaConfig
cn: java
olcAttributeTypes: {0}( 1.3.6.1.4.1.42.2.27.4.1.6 NAME 'javaClassName' DESC 'Fully qualified name of distinguished Java class or interface' EQUALITY caseExactMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 SINGLE-VALUE )
olcAttributeTypes: {1}( 1.3.6.1.4.1.42.2.27.4.1.7 NAME 'javaCodebase' DESC 'URL(s) specifying the location of class definition' EQUALITY caseExactIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: {2}( 1.3.6.1.4.1.42.2.27.4.1.13 NAME 'javaClassNames' DESC 'Fully qualified Java class or interface name' EQUALITY caseExactMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )

olcAttributeTypes: {3}( 1.3.6.1.4.1.42.2.27.4.1.8 NAME 'javaSerializedData' DESC 'Serialized form of a Java object' SYNTAX 1.3.6.1.4.1.1466.115.121.1.40 SINGLE-VALUE )

olcAttributeTypes: {4}( 1.3.6.1.4.1.42.2.27.4.1.10 NAME 'javaFactory' DESC 'Fully qualified Java class name of a JNDI object factory' EQUALITY caseExactMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 SINGLE-VALUE )

olcAttributeTypes: {5}( 1.3.6.1.4.1.42.2.27.4.1.11 NAME 'javaReferenceAddress' DESC 'Addresses associated with a JNDI Reference' EQUALITY caseExactMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )

olcAttributeTypes: {6}( 1.3.6.1.4.1.42.2.27.4.1.12 NAME 'javaDoc' DESC 'The Java documentation for the class' EQUALITY caseExactIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

olcObjectClasses: {0}( 1.3.6.1.4.1.42.2.27.4.2.1 NAME 'javaContainer' DESC 'Container for a Java object' SUP top STRUCTURAL MUST cn )

olcObjectClasses: {1}( 1.3.6.1.4.1.42.2.27.4.2.4 NAME 'javaObject' DESC 'Java object representation' SUP top ABSTRACT MUST javaClassName MAY ( javaClassNames $ javaCodebase $ javaDoc $ description ) )

olcObjectClasses: {2}( 1.3.6.1.4.1.42.2.27.4.2.5 NAME 'javaSerializedObject' DESC 'Java serialized object' SUP javaObject AUXILIARY MUST javaSerializedData )

olcObjectClasses: {3}( 1.3.6.1.4.1.42.2.27.4.2.8 NAME 'javaMarshalledObject' DESC 'Java marshalled object' SUP javaObject AUXILIARY MUST javaSerializedData )

olcObjectClasses: {4}( 1.3.6.1.4.1.42.2.27.4.2.7 NAME 'javaNamingReference' DESC 'JNDI reference' SUP javaObject AUXILIARY MAY ( javaReferenceAddress $ javaFactory ) )

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# collective.schema -- Collective attribute schema

# $OpenLDAP$

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## Collective Attributes in LDAP

### Abstract

X.500 collective attributes allow common characteristics to be shared between collections of entries. This document summarizes the X.500 information model for collective attributes and describes use of collective attributes in LDAP (Lightweight Directory Access Protocol). This document provides schema definitions for collective attributes for use in LDAP.

### 3. Collective Attribute Types

A userApplications attribute type can be defined to be COLLECTIVE [RFC2252]. This indicates that the same attribute values will appear in the entries of an entry collection subject to the use of the collectiveExclusions attribute and other administrative controls.

Collective attribute types are commonly defined as subtypes of non-collective attribute types. By convention, collective attributes are named by prefixing the name of their non-collective supertype with "c-". For example, the collective telephone attribute is named c-TelephoneNumber after its non-collective supertype telephoneNumber.

Non-collective attributes types SHALL NOT subtype collective attributes.

Collective attributes SHALL NOT be SINGLE-VALUED. Collective attribute types SHALL NOT appear in the attribute types of an object class definition.

Operational attributes SHALL NOT be defined to be collective.

The remainder of section provides a summary of collective attributes derived from those defined in [X.520]. Implementations of this specification SHOULD support the following collective attributes and MAY support additional collective attributes.

### 3.1. Collective Locality Name

The c-l attribute type specifies a locality name for a collection of
# entries.
#
attributeType   ( 2.5.4.7.1 NAME 'c-l'
SUP 1 COLLECTIVE )
#
#
#3.2. Collective State or Province Name
#
# The c-st attribute type specifies a state or province name for a
# collection of entries.
#
attributeType   ( 2.5.4.8.1 NAME 'c-st'
SUP st COLLECTIVE )
#
#
#3.3. Collective Street Address
#
# The c-street attribute type specifies a street address for a
# collection of entries.
#
attributeType   ( 2.5.4.9.1 NAME 'c-street'
SUP street COLLECTIVE )
#
#
#3.4. Collective Organization Name
#
# The c-o attribute type specifies an organization name for a collection
# of entries.
#
attributeType   ( 2.5.4.10.1 NAME 'c-o'
SUP o COLLECTIVE )
#
#
#3.5. Collective Organizational Unit Name
#
# The c-ou attribute type specifies an organizational unit name for a
# collection of entries.
#
attributeType   ( 2.5.4.11.1 NAME 'c-ou'
SUP ou COLLECTIVE )
#
#
#3.6. Collective Postal Address
#
# The c-PostalAddress attribute type specifies a postal address for a
# collection of entries.
#
attributeType   ( 2.5.4.16.1 NAME 'c-PostalAddress'
SUP PostalAddress COLLECTIVE )
SUP postalAddress COLLECTIVE )
#
#
# 3.7. Collective Postal Code
#
# The c-PostalCode attribute type specifies a postal code for a
# collection of entries.
#
attributeType ( 2.5.4.17.1 NAME 'c-PostalCode'
SUP postalCode COLLECTIVE )
#
#
# 3.8. Collective Post Office Box
#
# The c-PostOfficeBox attribute type specifies a post office box for a
# collection of entries.
#
attributeType ( 2.5.4.18.1 NAME 'c-PostOfficeBox'
SUP postOfficeBox COLLECTIVE )
#
#
# 3.9. Collective Physical Delivery Office Name
#
# The c-PhysicalDeliveryOfficeName attribute type specifies a physical
# delivery office name for a collection of entries.
#
attributeType ( 2.5.4.19.1 NAME 'c-PhysicalDeliveryOfficeName'
SUP physicalDeliveryOfficeName COLLECTIVE )
#
#
# 3.10. Collective Telephone Number
#
# The c-TelephoneNumber attribute type specifies a telephone number for
# a collection of entries.
#
attributeType ( 2.5.4.20.1 NAME 'c-TelephoneNumber'
SUP telephoneNumber COLLECTIVE )
#
#
# 3.11. Collective Telex Number
#
# The c-TelexNumber attribute type specifies a telex number for a
# collection of entries.
#
attributeType ( 2.5.4.21.1 NAME 'c-TelexNumber'
SUP telexNumber COLLECTIVE )
#
#
#3.13. Collective Facsimile Telephone Number
#
# The c-FacsimileTelephoneNumber attribute type specifies a facsimile
# telephone number for a collection of entries.
#
attributeType ( 2.5.4.23.1 NAME 'c-FacsimileTelephoneNumber'
SUP facsimileTelephoneNumber COLLECTIVE )
#
#
#3.14. Collective International ISDN Number
#
# The c-InternationalISDNNumber attribute type specifies an
# international ISDN number for a collection of entries.
#
attributeType ( 2.5.4.25.1 NAME 'c-InternationalISDNNumber'
SUP internationalISDNNumber COLLECTIVE )

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r0/etc/openldap/schema/collective.schema

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# OpenLDAP Project's directory schema items

# depends upon:
#core.schema
#cosine.schema
#inetorgperson.schema

# These are provided for informational purposes only.

objectIdentifier OpenLDAProot 1.3.6.1.4.1.4203

objectIdentifier OpenLDAP OpenLDAProot:1
objectIdentifier OpenLDAPAttributeType OpenLDAP:3
objectIdentifier OpenLDAPObjectClass OpenLDAP:4

objectClass ( OpenLDAPObjectClass:3
  NAME 'OpenLDAPorg'
  DESC 'OpenLDAP Organizational Object'
  SUP organization
  MAY ( buildingName $ displayName $ labeledURI ) )

objectClass ( OpenLDAPObjectClass:4
  NAME 'OpenLDAPou'
  DESC 'OpenLDAP Organizational Unit Object'
  SUP organizationalUnit
  MAY ( buildingName $ displayName $ labeledURI $ o ) )

objectClass ( OpenLDAPObjectClass:5
  NAME 'OpenLDAPperson'
  DESC 'OpenLDAP Person'
  SUP ( pilotPerson $ inetOrgPerson )
  MUST ( uid $ cn )
  MAY ( givenName $ labeledURI $ o ) )

objectClass ( OpenLDAPObjectClass:6
  NAME 'OpenLDAPdisplayableObject'
  DESC 'OpenLDAP Displayable Object'
  AUXILIARY
  MAY displayName )

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#
# These definitions are from Microsoft's Active Directory.
# They were first gathered using the subschemaSubentry object of
# Windows 2000 Advanced Server Release Candidate 2.
# Additional definitions were gathered from Windows Server 2012
# and adjusted to ease compatibility issues.
#
# These object classes and attributes are rooted at OID
# 1.2.840.113556.1, Microsoft's Directory Enabled networks
# OID. OID Macros are used throughout, to make mapping of
# incompatible OIDs easier.
#
# A number of custom syntaxes have been replaced with generic
# syntaxes. The original syntax OIDs are commented out below.
#
# Many of these attributes are defined with NO-USER-MODIFICATION,
# but slapd won't load such definitions from user-modifiable schema
# files. So that designation has been removed, and commented accordingly.
#
# Only the subset of Windows 2012 attributes needed to make the
# user and group objectclasses work has been added to the previously
# retrieved definitions.
#
# If an AD definition clashes with existing standardized schema,
# the AD definition has been commented out.
#
dn: cn=msuser,cn=schema,cn=config
objectClass: olcSchemaConfig

#
olcObjectIdentifier: MicrosoftRoot 1.2.840.113556
olcObjectIdentifier: MSAD MicrosoftRoot:1
olcObjectIdentifier: MSADat2MSAD:2
olcObjectIdentifier: MSADat4MSAD:4
olcObjectIdentifier: MSADat6MSAD:6
olcObjectIdentifier: MSADoc3MSAD:3
olcObjectIdentifier: MSADoc5MSAD:5
olcObjectIdentifier: MSADdnWithOctetString 1.3.6.1.4.1.1466.115.121.1.40
olcObjectIdentifier: MSADdnWithString 1.3.6.1.4.1.1466.115.121.1.40
olcObjectIdentifier: MSADtelex 1.3.6.1.4.1.1466.115.121.1.44
olcObjectIdentifier: MSADlargeInteger 1.3.6.1.4.1.1466.115.121.1.27
olcObjectIdentifier: MSADcis 1.3.6.1.4.1.1466.115.121.1.44
olcObjectIdentifier: MSADsecDesc 1.3.6.1.4.1.1466.115.121.1.40

# original OIDs commented out below
#olcObjectIdentifier: MSADdnWithOctetString MSADat4:903
#olcObjectIdentifier: MSADdnWithString MSADat4:904
#olcObjectIdentifier: MSADtelex MSADat4:905
#olcObjectIdentifier: MSADlargeInteger MSADat4:906
#olcObjectIdentifier: MSADcis MSADat4:907
#olcObjectIdentifier: MSADsecDesc MSADat4:907

# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:104
  NAME 'ownerBL'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)

# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1424
  NAME 'msCOM-PartitionSetLink'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)

# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1425
  NAME 'msCOM-UserLink'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)

# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1669
  NAME 'msDS-Approx-Immed-Subordinates'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE
)

olcAttributeTypes: ( MSADat4:1704
  NAME 'msDS-NCReplCursors'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)

olcAttributeTypes: ( MSADat4:1705
  NAME 'msDS-NCReplInboundNeighbors'
)
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:1706
  NAME 'msDS-NCReplOutboundNeighbors'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:1707
  NAME 'msDS-ReplAttributeMetaData'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:1708
  NAME 'msDS-ReplValueMetaData'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:1793
  NAME 'msDS-NonMembers'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1794
  NAME 'msDS-NonMembersBL'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:1806
  NAME 'msDS-MembersForAzRole'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1807
  NAME 'msDS-MembersForAzRoleBL'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:1808 NAME 'msDS-OperationsForAzTask' SYNTAX
  '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1809 NAME 'msDS-OperationsForAzTaskBL' SYNTAX
  '1.3.6.1.4.1.1466.115.121.1.12' )
olcAttributeTypes: ( MSADat4:1810 NAME 'msDS-TasksForAzTask' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1811 NAME 'msDS-TasksForAzTaskBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
olcAttributeTypes: ( MSADat4:1812 NAME 'msDS-OperationsForAzRole' SYNTAX
  '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1813 NAME 'msDS-OperationsForAzRoleBL' SYNTAX
  '1.3.6.1.4.1.1466.115.121.1.12' )
olcAttributeTypes: ( MSADat4:1814 NAME 'msDS-TasksForAzRole' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2059 NAME 'msDS-LocalEffectiveDeletionTime' SYNTAX '1.3.6.1.4.1.1466.115.121.1.24' SINGLE-VALUE )

# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2060 NAME 'msDS-LocalEffectiveRecycleTime' SYNTAX '1.3.6.1.4.1.1466.115.121.1.24' SINGLE-VALUE )

# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2067 NAME 'msDS-LastKnownRDN' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )

# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2069 NAME 'msDS-EnabledFeatureBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
olcAttributeTypes: ( MSADat4:2102 NAME 'msDS-ClaimSharesPossibleValuesWithBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
olcAttributeTypes: ( MSADat4:2104 NAME 'msDS-MembersOfResourcePropertyListBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
olcAttributeTypes: ( MSADat4:2168 NAME 'msDS-IsPrimaryComputerFor' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2188 NAME 'msDS-ValueTypeReferenceBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2193 NAME 'msDS-TDOIngressBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2194 NAME 'msDS-TDOEgressBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2203 NAME 'msDS-parentdistname' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2235 NAME 'msDS-ReplValueMetaDataExt' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )

# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2236 NAME 'msds-memberOfTransitive' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2238 NAME 'msds-memberTransitive' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
olcAttributeTypes: ( MSADat6:18.1.347 NAME 'msSFU30PosixMemberOf' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
olcAttributeTypes: ( MSADat6:13.3.102 NAME 'msDFSR-MemberReferenceBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
olcAttributeTypes: ( MSADat6:13.3.103 NAME 'msDFSR-ComputerReferenceBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )

#

olcAttributeTypes: ( MSADat4:1792 NAME 'msDS-AzLDAPQuery' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1801 NAME 'msDS-AzBizRule' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1802 NAME 'msDS-AzBizRuleLanguage' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1803 NAME 'msDS-AzLastImportedBizRulePath' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1819 NAME 'msDS-AzApplicationData' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1949 NAME 'msDS-AzObjectGuid' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1950 NAME 'msDS-AzGenericData' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat6:18.1.309 NAME 'msSFU30Name' SYNTAX '1.3.6.1.4.1.1466.115.121.1.126' SINGLE-VALUE )
olcAttributeTypes: ( MSADat6:18.1.339 NAME 'msSFU30NisDomain' SYNTAX '1.3.6.1.4.1.1466.115.121.1.126' SINGLE-VALUE )
olcAttributeTypes: ( MSADat6:18.1.346 NAME 'msSFU30PosixMember' SYNTAX '1.3.6.1.4.1.1466.115.121.1.126' )

#
olcAttributeTypes: ( MSADat4:1426 NAME 'msCOM-UserPartitionSetLink' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1441 NAME 'msDS-Cached-Membership' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1442 NAME 'msDS-Cached-Membership-Time-Stamp' SYNTAX 'MSADlargeInteger' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1443 NAME 'msDS-Site-Affinity' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
olcAttributeTypes: ( MSADat4:1460 NAME 'msDS-User-Account-Control-Computed' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1696 NAME 'lastLogonTimestamp' SYNTAX 'MSADlargeInteger' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1785 NAME 'msIIS-FTPRoot' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1786 NAME 'msIIS-FTPDir' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1843 NAME 'msDRM-IdentityCertificate' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
olcAttributeTypes: ( MSADat4:1879 NAME 'msDS-SourceObjectDN' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1892 NAME 'msPKIRoamingTimeTimestamp' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1893 NAME 'msPKIDPAPIMasterKeys' SYNTAX 'MSADdnWithOctetString' )
olcAttributeTypes: ( MSADat4:1894 NAME 'msPKIAccountCredentials' SYNTAX 'MSADdnWithOctetString' )
olcAttributeTypes: ( MSADat4:1913 NAME 'msRADIUS-FramedInterfaceId' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1914 NAME 'msRADIUS-SavedFramedInterfaceId' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1915 NAME 'msRADIUS-SavedI Pv6Prefix' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1916 NAME 'msRADIUS-SavedI Pv6Prefix' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' SINGLE-VALUE )
'1.3.6.1.4.1.1466.115.121.1.26' SINGLE-VALUE

olcAttributeTypes: ( MSADat4:1917 NAME 'msRADIUS-FramedIpv6Route' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.26' )

olcAttributeTypes: ( MSADat4:1918 NAME 'msRADIUS-SavedFramedIpv6Route' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.26' )

# NO-USER-MODIFICATION

olcAttributeTypes: ( MSADat4:1929 NAME 'msDS-SecondaryKrbTgtNumber' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1963 NAME 'msDS-SupportedEncryptionTypes' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )

# NO-USER-MODIFICATION

olcAttributeTypes: ( MSADat4:1970 NAME 'msDS-LastSuccessfulInteractiveLogonTime' SYNTAX
'MSADlargeInteger' SINGLE-VALUE )

# NO-USER-MODIFICATION

olcAttributeTypes: ( MSADat4:1971 NAME 'msDS-LastFailedInteractiveLogonTime' SYNTAX
'MSADlargeInteger' SINGLE-VALUE )

# NO-USER-MODIFICATION

olcAttributeTypes: ( MSADat4:1972 NAME 'msDS-FailedInteractiveLogonCount' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )

# NO-USER-MODIFICATION

olcAttributeTypes: ( MSADat4:1973 NAME 'msDS-FailedInteractiveLogonCountAtLastSuccessfulLogon' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1976 NAME 'msTSProfilePath' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1977 NAME 'msTSHomeDirectory' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1978 NAME 'msTSHomeDrive' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1979 NAME 'msTSAllowLogon' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1980 NAME 'msTSRemoteControl' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1981 NAME 'msTSMaxDisconnectionTime' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1982 NAME 'msTSMaxConnectionTime' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1983 NAME 'msTSMaxIdleTime' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1984 NAME 'msTSReconnectionAction' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1985 NAME 'msTSBrokenConnectionAction' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1986 NAME 'msTSCONnectedClientDrives' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1987 NAME 'msTSCONnectedPrinterDrives' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )

olcAttributeTypes: ( MSADat4:1988 NAME 'msTSDefaultToMainPrinter' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1989 NAME 'msTSWorkDirectory' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1990 NAME 'msTSInitialProgram' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1991 NAME 'msTSProperty01' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
olcAttributeTypes: ( MSADat4:1992 NAME 'msTSProperty02' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
olcAttributeTypes: ( MSADat4:1993 NAME 'msTSExpireDate' SYNTAX '1.3.6.1.4.1.1466.115.121.1.24' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1994 NAME 'msTSLicenseVersion' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1995 NAME 'msTSManagingLS' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1996 NAME 'msDS-UserPasswordExpiryTimeComputed' SYNTAX 'MSADlargeInteger' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2008 NAME 'msTSManagingLS4' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2005 NAME 'msTSManagingLS3' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2002 NAME 'msTSExpireDate2' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2006 NAME 'msTSExpireDate4' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2003 NAME 'msTSExpireDate3' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2000 NAME 'msTSExpireDate2' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2004 NAME 'msTSLicenseVersion3' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2001 NAME 'msTSLicenseVersion2' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2007 NAME 'msTSLicenseVersion4' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2009 NAME 'msTLSProperty01' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
olcAttributeTypes: ( MSADat4:2010 NAME 'msTLSProperty02' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' ) # NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2022 NAME 'msDS-ResultantPSO' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2050 NAME 'msPKI-CredentialRoamingTokens' SYNTAX 'MSADdnWithOctetString' )
olcAttributeTypes: ( MSADat4:2073 NAME 'msTPrimaryDesktop' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2075 NAME 'msTSSecondaryDesktops' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
olcAttributeTypes: ( MSADat4:2276 NAME 'msDS-SyncServerUrl' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
olcAttributeTypes: ( MSADat4:2285 NAME 'msDS-AssignedAuthNPolicySilo' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE ) # NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2288 NAME 'msDS-AuthNPolicySiloMembersBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
openAttributeTypes: ( MSADat4:2295 NAME 'msDS-AssignedAuthNPolicy' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
#
## NO-USER-MODIFICATION
# openAttributeTypes: ( MSADat4:1459 NAME 'msDS-Behavior-Version' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
# openAttributeTypes: ( MSADat4:1788 NAME 'msDS-PerUserTrustQuota' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
# openAttributeTypes: ( MSADat4:1789 NAME 'msDS-AllUsersTrustQuota' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
# openAttributeTypes: ( MSADat4:1790 NAME 'msDS-PerUserTrustTombstonesQuota' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
#
# NO-USER-MODIFICATION
# openAttributeTypes: ( MSADat4:1717 NAME 'msDS-AdditionalDnsHostName' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.15' )
## NO-USER-MODIFICATION
openAttributeTypes: ( MSADat4:1718 NAME 'msDS-AdditionalSamAccountName' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.15' )
# NO-USER-MODIFICATION
openAttributeTypes: ( MSADat4:1783 NAME 'msDS-ExecuteScriptPassword' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
openAttributeTypes: ( MSADat4:1923 NAME 'msDS-KrbTgtLink' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
# NO-USER-MODIFICATION
openAttributeTypes: ( MSADat4:1924 NAME 'msDS-RevealedUsers' SYNTAX 'MSADdnWithOctetString' )
openAttributeTypes: ( MSADat4:1926 NAME 'msDS-NeverRevealGroup' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
openAttributeTypes: ( MSADat4:1928 NAME 'msDS-RevealOnDemandGroup' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
openAttributeTypes: ( MSADat4:1940 NAME 'msDS-RevealedList' SYNTAX 'MSADdnWithString' )
openAttributeTypes: ( MSADat4:1959 NAME 'msDS-isGC' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-
VALUE )
openAttributeTypes: ( MSADat4:1960 NAME 'msDS-isRODC' SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-
VALUE )
openAttributeTypes: ( MSADat4:1961 NAME 'msDS-SiteName' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-
VALUE )
# NO-USER-MODIFICATION
openAttributeTypes: ( MSADat4:1962 NAME 'msDS-PromotionSettings' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
openAttributeTypes: ( MSADat4:1966 NAME 'msTPM-OwnerInformation' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
openAttributeTypes: ( MSADat4:2025 NAME 'msDS-IsUserCachableAtRocd' SYNTAX
'1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
openAttributeTypes: ( MSADat4:2056 NAME 'msDS-HostServiceAccount' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)
openAttributeTypes: ( MSADat4:2070 NAME 'msTSEndpointData' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

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olcAttributeTypes: ( MSADat4:2071 NAME 'msTSEndpointType' SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2072 NAME 'msTSEndpointPlugin' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2074 NAME 'msTSPrimaryDesktopBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2078 NAME 'msTSSecondaryDesktopBL' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
olcAttributeTypes: ( MSADat4:2109 NAME 'msTPM-TpmInformationForComputer' SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2166 NAME 'msDS-GenerationId' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2180 NAME 'msImaging-ThumbprintHash' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2181 NAME 'msImaging-HashAlgorithm' SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:2234 NAME 'netbootDUID' SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-
VALUE )
olcAttributeTypes: ( MSADat6:18.1.323 NAME 'msSFU30Aliases' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )
#olcAttributeTypes: ( 1.3.6.1.1.1.1.26 NAME 'nisMapName' SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' SINGLE-
VALUE )
#
# olcAttributeTypes: ( MSADat4:856
  NAME 'netbootNewMachineOU'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:13
  NAME 'builtinCreationTime'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1335
  NAME 'pKIEnrollmentAccess'
  SYNTAX 'MSADcis' )
#
olcAttributeTypes: ( MSADat4:1333
  NAME 'pKIEnterpriseAccess'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:1123
  NAME 'msNPCalledStationID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )
#
olcAttributeTypes: ( MSADat4:539

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NAME 'initialAuthIncoming'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:370
  NAME 'objectClassCategory'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:41
  NAME 'generatedConnection'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:911
  NAME 'allowedChildClasses'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )
#
olcAttributeTypes: ( MSADat4:68
  NAME 'machineArchitecture'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' )
#
olcAttributeTypes: ( MSADat4:767
  NAME 'aCSMaxPeakBandwidth'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:72
  NAME 'marshalledInterface'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:368
  NAME 'rIDManagerReference'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:770
  NAME 'aCSEnableACSService'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1237
  NAME 'mSMQRoutingService'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1405
  NAME 'mS-SQL-AllowQueuedUpdatingSubscription'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:648
  NAME 'primaryTelexNumber'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:8
  NAME 'userAccountControl'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:484
  NAME 'RSDirectoryFilter'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:563
  NAME 'shellPropertyPages'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:1386
  NAME 'mS-SQL-GPSLongitude'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:562
  NAME 'adminPropertyPages'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:121
  NAME 'securityIdentifier'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:166
  NAME 'groupMembershipSAM'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:659
  NAME 'serviceDNSNameType'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:585
  NAME 'meetingIsEncrypted'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1400
  NAME 'mS-SQL-Applications'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:330
  NAME 'lastUpdateSequence'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:50
  NAME 'lastContentIndexed'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:567
  NAME 'meetingDescription'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:880
  NAME 'RSTimeLastCommand'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.53'
#SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:83
  NAME 'monikerDisplayName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:321
  NAME 'requiredCategories'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:813
  NAME 'upgradeProductCode'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:774
  NAME 'aCSMaxNoOfLogFiles'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1370
  NAME 'mS-SQL-CharacterSet'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:578
  NAME 'meetingContactInfo'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1397
  NAME 'mS-SQL-CreationDate'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:32
  NAME 'domainPolicyObject'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:703
  NAME 'dhcpObjDescription'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:573
  NAME 'meetingApplication'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#

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olcAttributeTypes: ( MSADat4:518
NAME 'defaultHidingValue'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:875
NAME 'fRSMemberReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:701
NAME 'dhcpIdentification'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:135
NAME 'trustAuthOutgoing'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:197
NAME 'systemMustContain'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1412
NAME 'primaryGroupToken'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:118
NAME 'rpcNsProfileEntry'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:129
NAME 'trustAuthIncoming'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1225
NAME 'mSMQPrevSiteGates'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:607
NAME 'queryPolicyObject'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE
#
olcAttributeTypes: ( MSADat4:712
  NAME 'optionDescription'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:1314
  NAME 'aCSMaximumSDUSize'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:530
  NAME 'nonSecurityMember'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:31
  NAME 'fRSReplicaSetType'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:763
  NAME 'aCSTotalNoOfFlows'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:915
  NAME 'possibleInferiors'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )
#
olcAttributeTypes: ( MSADat4:851
  NAME 'netbootMaxClients'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1385
  NAME 'mS-SQL-GPSLatitude'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:765
  NAME 'aCSPermissionBits'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:926
  NAME 'mSMQTransactional'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1390
  NAME 'mS-SQL-Description'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:913
  NAME 'allowedAttributes'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )
#
olcAttributeTypes: ( MSADat4:491
  NAME 'rSFaultCondition'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:54
  NAME 'tombstoneLifetime'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:809
  NAME 'remoteStorageGUID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:644
  NAME 'showInAddressBook'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:213
  NAME 'defaultClassStore'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:577
  NAME 'meetingOriginator'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:656
  NAME 'userPrincipalName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1316
  NAME 'aCSMinimumLatency'
  SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
# olcAttributeTypes: ( MSADat2:617
# NAME 'homePostalAddress'
# SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
# SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:638
NAME 'isPrivilegeHolder'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:533
NAME 'rSRsReplicaSetGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:371
NAME 'rIDAllocationPool'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1327
NAME 'pKIDefaultKeySpec'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:537
NAME 'dynamicLDAPServer'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:516
NAME 'serverReferenceBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:500
NAME 'RSServiceCommand'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1304
NAME 'sDRightsEffective'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1249
  NAME 'proxiedObjectName'
  SYNTAX 'MSADdnWithOctetString'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:586
  NAME 'meetingRecurrence'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:251
  NAME 'cOMTreatAsClassId'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1245
  NAME 'globalAddressList'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:908
  NAME 'extendedClassInfo'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:459
  NAME 'machineWidePolicy'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:356
  NAME 'foreignIdentifier'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1242
  NAME 'dNReferenceUpdate'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:134
  NAME 'trustPosixOffset'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:36
  NAME 'enabledConnection'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:627
  NAME 'ipsecNFAReference'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:86
  NAME 'userWorkstations'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:301
  NAME 'garbageCollPeriod'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:933
  NAME 'mSMQComputerType'
  SYNTAX 'MSADtelex'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:65
  NAME 'logonWorkstation'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:921
  NAME 'mSMQJournalQuota'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:108
  NAME 'remoteSourceType'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:95
  NAME 'pwdHistoryLength'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:920
  NAME 'mSMQBasePriority'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:196
NAME 'systemMayContain'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
#
olcAttributeTypes: ( MSADat4:1407
  NAME 'mS-SQL-ThirdParty'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1243
  NAME 'mSMQQueueNameExt'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:485
  NAME 'RSUpdateTimeout'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:924
  NAME 'mSMQPrivacyLevel'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:615
  NAME 'shellContextMenu'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
  # NO-USER-MODIFICATION
  olcAttributeTypes: ( MSADat4:618
    NAME 'wellKnownObjects'
    SYNTAX 'MSADnWithOctetString' )
#
  olcAttributeTypes: ( MSADat4:789
    NAME 'transportDLLName'
    SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
    SINGLE-VALUE )
#
  olcAttributeTypes: ( MSADat4:458
    NAME 'qualityOfService'
    SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
    SINGLE-VALUE )
#
  olcAttributeTypes: ( MSADat4:73
    NAME 'lockoutThreshold'
    SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
    SINGLE-VALUE )
#
  olcAttributeTypes: ( MSADat4:105
NAME 'remoteServerName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#
olcAttributeTypes: ( MSADat4:694
NAME 'previousParentCA'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
#
olcAttributeTypes: ( MSADat4:1345
NAME 'dSUIShellMaximum'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:303
NAME 'notificationList'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1244
NAME 'addressBookRoots'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
#
olcAttributeTypes: ( MSADat4:878
NAME 'fRSPrimaryMember'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
#olcAttributeTypes: ( MSADat4:587
#NAME 'meetingStartTime'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.53'
#
olcAttributeTypes: ( MSADat4:1310
NAME 'mSMQSiteGatesMig'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
#
olcAttributeTypes: ( MSADat4:709
NAME 'dhcpReservations'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.44'
#
olcAttributeTypes: ( MSADat4:614
NAME 'adminContextMenu'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#
olcAttributeTypes: ( MSADat4:1332
NAME 'pKIOverlapPeriod'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:142
NAME 'winsockAddresses'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
#
olcAttributeTypes: ( MSADat4:923
  NAME 'mSMQAuthenticate'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1344
  NAME 'dSUIAdminMaximum'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:848
  NAME 'appSchemaVersion'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:123
  NAME 'serviceClassInfo'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
)
#
olcAttributeTypes: ( MSADat4:769
  NAME 'aCSEventLogLevel'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:751
  NAME 'userSharedFolder'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:421
  NAME 'domainWidePolicy'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
)
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:669
  NAME 'rIDSetReferences'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)
#
olcAttributeTypes: ( MSADat4:815
  NAME 'canUpgradeScript'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)
#
olcAttributeTypes: ( MSADat4:610
  NAME 'classDisplayName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)
# olcAttributeTypes: ( MSADat2:226
  NAME 'adminDescription'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
# olcAttributeTypes: ( MSADat4:67
  NAME 'lSAModifiedCount'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
# olcAttributeTypes: ( MSADat4:509
  NAME 'serviceClassName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
# olcAttributeTypes: ( MSADat4:56
  NAME 'localPolicyFlags'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
# olcAttributeTypes: ( MSADat4:115
  NAME 'rpcNsInterfaceID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
# olcAttributeTypes: ( MSADat2:194
  NAME 'adminDisplayName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
# olcAttributeTypes: ( MSADat4:753
  NAME 'nameServiceFlags'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
# olcAttributeTypes: ( MSADat4:589
  NAME 'meetingBandwidth'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27')
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:755
  NAME 'domainIdentifier'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
# olcAttributeTypes: ( MSADat4:370
  NAME 'rIDAavailablePool'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE)
#
olcAttributeTypes: (MSADat4:655
NAME 'legacyExchangeDN'
SYNTAX 'MSADtelex'
SINGLE-VALUE)
#
olcAttributeTypes: (MSADat4:470
NAME 'trustAttributes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE)
#
olcAttributeTypes: (MSADat4:535
NAME 'RSCRootSecurity'
SYNTAX 'MSADcis'
SINGLE-VALUE)
#
olcAttributeTypes: (MSADat4:532
NAME 'superiorDNSRoot'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE)
#
olcAttributeTypes: (MSADat4:278
NAME 'printMaxYExtent'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE)
#
olcAttributeTypes: (MSADat4:277
NAME 'printMaxXExtent'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE)
#
olcAttributeTypes: (MSADat4:280
NAME 'printMinYExtent'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE)
#
olcAttributeTypes: (MSADat4:279
NAME 'printMinXExtent'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE)
#
# NO-USER-MODIFICATION
olcAttributeTypes: (MSADat2:32
NAME 'attributeSyntax'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
SINGLE-VALUE)
olcAttributeTypes: ( MSADat4:247
NAME 'printAttributes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:152
NAME 'groupAttributes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:816
NAME 'fileExtPriority'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:930
NAME 'mSMQServiceType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:363
NAME 'operatingSystem'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1371
NAME 'mS-SQL-SortOrder'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:329
NAME 'versionNumberLo'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:884
NAME 'msRRASAttribute'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:781
NAME 'lastKnownParent'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1209
NAME 'shortServerName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:60
  NAME 'lockoutDuration'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:232
  NAME 'defaultPriority'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:754
  NAME 'rpcNsEntryFlags'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:713
  NAME 'optionsLocation'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.44' )
#
olcAttributeTypes: ( MSADat4:328
  NAME 'versionNumberHi'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:366
  NAME 'rpcNsAnnotation'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:886
  NAME 'purportedSearch'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:776
  NAME 'aCSDSBMPriority'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:961
  NAME 'mSMQSiteForeign'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' )
#
olcAttributeTypes: ( MSADat4:335
  NAME 'currentLocation'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
olcAttributeTypes: ( MSADat4:1387
NAME 'mS-SQL-GPSHeight'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1378
NAME 'mS-SQL-AppleTalk'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:269
NAME 'linkTrackSecret'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:378
NAME 'dnsAllowDynamic'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:49
NAME 'badPasswordTime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:637
NAME 'privilegeHolder'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:289
NAME 'printMediaReady'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:288
NAME 'printMACAddress'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:66
NAME 'ISACreationTime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:569
NAME 'meetingLocation'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:784
NAME 'aCSIIdentityName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1410
NAME 'mS-DS-CreatorSID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1374
NAME 'mS-SQL-NamedPipe'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:843
NAME 'IDAPAdminLimits'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat2:460
NAME 'IDAPdisplayName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:218
NAME 'applicationName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:695
NAME 'pendingParentCA'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:779
NAME 'aSCacheTimeout'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:574
NAME 'meetingLanguage'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)
#
olcAttributeTypes: ( MSADat4:778
NAME 'aCDSBMDeadTime'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:697
NAME 'cACertificateDN'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:138
  NAME 'userParameters'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:132
  NAME 'trustDirection'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:962
  NAME 'mSMQQueueQuota'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:936
  NAME 'mSMQEncryptKey'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:885
  NAME 'terminalServer'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:233
  NAME 'printStartTime'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:664
  NAME 'syncWithObject'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:344
  NAME 'groupsToIgnore'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:665
  NAME 'syncMembership'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:666
  NAME 'syncAttributes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:214
NAME 'nextLevelStore
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:302
NAME 'sAMAccountType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1401
NAME 'mS-QL-Keywords'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15')
#
olcAttributeTypes: ( MSADat2:210
NAME 'proxyAddresses'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15')
#
olcAttributeTypes: ( MSADat4:284
NAME 'bytesPerMinute'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:241
NAME 'printMaxCopies'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:98
NAME 'primaryGroupID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:89
NAME 'nTGroupMembers'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40')
#
olcAttributeTypes: ( MSADat4:1228
NAME 'mSMQDsServices'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:43
NAME 'RSVersionGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:486
    NAME 'fRSWorkingPath'
    SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
    SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:18
    NAME 'otherTelephone'
    SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat2:277
    NAME 'otherHomePhone'
    SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:151
    NAME 'oEMInformation'
    SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
    SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:459
    NAME 'networkAddress'
    SYNTAX 'MSADtelex' )
#
olcAttributeTypes: ( MSADat4:966
    NAME 'mSMQDigestsMig'
    SYNTAX '1.3.6.1.4.1.1466.115.121.1.140' )
#
olcAttributeTypes: ( MSADat4:568
    NAME 'meetingKeyword'
    SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:844
    NAME 'IDAPIDenyList'
    SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:847
    NAME 'installUiLevel'
    SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
    SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:894
    NAME 'gPCFileSysPath'
    SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
    SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:488
    NAME 'fRSStagingPath'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:351
  NAME 'auxiliaryClass'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )
#
olcAttributeTypes: ( MSADat4:159
  NAME 'accountExpires'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:718
  NAME 'dhcpProperties'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:346
  NAME 'desktopProfile'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:762
  NAME 'aCSServiceType'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
#olcAttributeTypes: ( MSADat2:610
#  NAME 'employeeNumber'
#  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1213
  NAME 'assocNTAccount'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:498
  NAME 'creationWizard'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:253
  NAME 'cOMOtherProgId'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:202
  NAME 'auditingPolicy'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:635
  NAME 'privilegeValue'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1366
  NAME 'mS-SQL-Location'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1334
  NAME 'pKIDefaultCSPs'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:270
  NAME 'printShareName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:33
  NAME 'isSingleValued'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:472
  NAME 'domainCrossRef'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1240
  NAME 'netbootSIFFile'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:250
  NAME 'cOMUniqueLIBID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:657
  NAME 'serviceDNSName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:782
  NAME 'objectCategory'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:122
  NAME 'serviceClassID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:720
  NAME 'dhcpUpdateTime'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:221
  NAME 'sAMAccountName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
#olcAttributeTypes: ( MSADat4:588
  NAME 'meetingEndTime'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.53' )
#
olcAttributeTypes: ( MSADat4:1389
  NAME 'mS-SQL-Language'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:777
  NAME 'aCSDSBMRefresh'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1393
  NAME 'mS-SQL-Database'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:20
  NAME 'cOMInterfaceID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:1403
  NAME 'mS-SQL-AllowKnownPullSubscription'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1394
  NAME 'mS-SQL-AllowAnonymousSubscription'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:654
   NAME 'managedObjects'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat2:8
   NAME 'possSuperiors'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )
#
olcAttributeTypes: ( MSADat4:791
   NAME 'transportType'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:345
   NAME 'groupPriority'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:117
   NAME 'rpcNsPriority'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' )
#
olcAttributeTypes: ( MSADat4:917
   NAME 'mSMQQueueType'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:141
   NAME 'versionNumber'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
   SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:121
   NAME 'uSNLastObjRem'
   SYNTAX 'MSADlargeInteger'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1346
   NAME 'templateRoots'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:93
   NAME 'pwdProperties'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:290
NAME 'printNumberUp'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:536
NAME 'rSExtensions'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:286
NAME 'printRateUnit'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:846
NAME 'msiScriptSize'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:274
NAME 'printSpooling'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:608
NAME 'queryPolicyBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:103
NAME 'proxyLifetime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:144
NAME 'operatorCount'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:860
NAME 'netbootServer'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:369
NAME 'SMORoleOwner'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:276
  NAME 'driverVersion'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1388
  NAME 'mS-SQL-Version'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:939
  NAME 'mSMQNameStyle'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:471
  NAME 'schemaVersion'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:436
  NAME 'directReports'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat2:255
  NAME 'addressSyntax'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:235
  NAME 'printFormName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:15
  NAME 'msiScriptPath'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1312
  NAME 'aCSServerList'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
#olcAttributeTypes: ( MSADat2:615
#NAME 'personalTitle'
olcAttributeTypes: ( MSADat4:1305
  NAME 'moveTreeState'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.140' )
#
olcAttributeTypes: ( MSADat4:945
  NAME 'mSMQSiteGates'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:1238
  NAME 'mSMQDsService'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:76
  NAME 'objectVersion'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1414
  NAME 'dNSTombstoned'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:941
  NAME 'mSMQLongLived'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:534
  NAME 'fRSLevelLimit'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:845
  NAME 'msiScriptName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:44
  NAME 'homeDirectory'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:698
  NAME 'dhcpUniqueKey'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE
#
olcAttributeTypes: ( MSADat2:227
  NAME 'extensionName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat2:256
  NAME 'streetAddress'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:113
  NAME 'rpcNsBindings'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:237
  NAME 'printBinNames'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:109
  NAME 'replicaSource'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:246
  NAME 'printLanguage'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:1365
  NAME 'mS-SQL-Contact'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:357
  NAME 'nTMixedDomain'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:483
  NAME 'RSFileFilter'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:332
  NAME 'birthLocation'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:218
NAME 'oMOBJECTCLASS'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )

#
olcAttributeTypes: ( MSADat4:772
NAME 'aCSPOLICYNAME'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )

#
olcAttributeTypes: ( MSADat4:502
NAME 'timeVolChange'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )

#
olcAttributeTypes: ( MSADat4:337
NAME 'currMachineId'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:120
   NAME 'schemaFlagsEx'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1356
   NAME 'validAccesses'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:158
   NAME 'domainReplica'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1309
   NAME 'mSMQInterval2'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1308
   NAME 'mSMQInterval1'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
   SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:916
   NAME 'canonicalName'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:94
   NAME 'ntPwdHistory'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:133
   NAME 'trustPartner'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:160
   NAME 'lmPwdHistory'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1380
   NAME 'mS-SQL-Status'
   SYNTAX 'MSADlargeInteger'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:469
  NAME 'USNIntersite'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:858
  NAME 'netbootTools'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:99
  NAME 'priorSetTime'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1367
  NAME 'mS-SQL-Memory'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:950
  NAME 'mSMQServices'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
# olcAttributeTypes: ( MSADat2:613
#  NAME 'employeeType'
#  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:27
  NAME 'currentValue'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:822
  NAME 'siteLinkList'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:107
  NAME 'remoteSource'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:325
  NAME 'setupCommand'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
olcAttributeTypes: ( MSADat2:212
  NAME 'dSHeuristics'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1336
  NAME 'replInterval'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:234
  NAME 'printEndTime'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:1
  NAME 'instanceType'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:722
  NAME 'otherlpPhone'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:965
  NAME 'mSMQSiteName'
  SYNTAX 'MSADtelex'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:579
  NAME 'meetingOwner'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:242
  NAME 'printCollate'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:480
  NAME 'defaultGroup'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:79
  NAME 'minPwdLength'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:864
NAME 'netbootSCPBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:650
NAME 'mhsORAddress'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:651
#NAME 'otherMailbox'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:367
NAME 'rpcNsCodeset'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:14
NAME 'hasMasterNCs'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:952
NAME 'mSMQMigrated'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:74
NAME 'dSASignature'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:115
NAME 'invocationId'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:254
NAME 'cOMTypelibId'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:26
NAME 'creationTime'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:581
NAME 'meetingScope'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:336
NAME 'volTableGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:513
NAME 'siteObjectBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:756
NAME 'aCSTimeOfDay'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:757
NAME 'aCSDirection'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:77
NAME 'maxTicketAge'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:481
NAME 'schemaUpdate'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.24'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:80
NAME 'minTicketAge'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:628
NAME 'ipsecNegotiationPolicyReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:327
NAME 'helpFileName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:148
 NAME 'schemaIDGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:810
 NAME 'createDialog'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:964
 NAME 'mSMQNt4Flags'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:327
 NAME 'packageFlags'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:464
 NAME 'wWWHomePage'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:507
 NAME 'volumeCount'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:273
 NAME 'printStatus'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:890
 NAME 'uPNSuffixes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)
#
olcAttributeTypes: ( MSADat4:471
 NAME 'trustParent'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1301
   NAME 'tokenGroups'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:375
   NAME 'systemFlags'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:667
   NAME 'syncWithSID'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1306
   NAME 'dNSProperty'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:710
   NAME 'superScopes'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.44' )
#
olcAttributeTypes: ( MSADat4:1347
   NAME 'sPNMappings'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:272
   NAME 'printNotify'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:282
   NAME 'printMemory'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:154
   NAME 'serverState'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:942
   NAME 'mSMQVersion'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
   SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:373
  NAME 'rIDUsedPool'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1355
  NAME 'queryFilter'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:300
  NAME 'printerName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:97
  NAME 'preferredOU'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:649
  NAME 'primaryInternationalISDNNumber'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:333
  NAME 'oMTIndxGuid'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1337
  NAME 'mSMQUserSid'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:487
  NAME 'fRSRootPath'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:918
  NAME 'mSMQJournal'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:499
NAME 'contextMenu'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:764
NAME 'aCSPriority'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:937
NAME 'mSMQSignKey'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:359
NAME 'netbootGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:925
NAME 'mSMQOwnerID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:24
NAME 'mustContain'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
)
#
olcAttributeTypes: ( MSADat4:379
NAME 'dnsAllowXFR'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1379
NAME 'mS-SQL-Vines'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:948
NAME 'mSMQDigests'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
)
#
olcAttributeTypes: ( MSADat4:662
NAME 'lockoutTime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:53
NAME 'lastSetTime'

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SYNTAX 'MSADlargeInteger'
SINGLE-VALUE
#
olcAttributeTypes: ( MSADat4:25
NAME 'countryCode'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1377
NAME 'mS-SQL-TCPIP'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:934
NAME 'mSMQForeign'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.17'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:571
NAME 'meetingType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:714
NAME 'dhcpOptions'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:704
NAME 'dhcpServers'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.44' )
#
olcAttributeTypes: ( MSADat4:283
NAME 'assetNumber'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:350
NAME 'addressType'
SYNTAX 'MSADtelex'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:940
NAME 'mSMQCSPName'
SYNTAX 'MSADtelex'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:671
NAME 'msiFileList'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:619
  NAME 'dNSHostName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:705
  NAME 'dhcpSubnets'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.44' )
#
olcAttributeTypes: ( MSADat4:1328
  NAME 'pKIKeyUsage'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:30
  NAME 'attributeID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:506
  NAME 'objectCount'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:503
  NAME 'timeRefresh'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:139
  NAME 'profilePath'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:818
  NAME 'productCode'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:647
  NAME 'otherMobile'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:12
  NAME 'badPwdCount'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1368
  NAME 'mS-SQL-Build'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
# olcAttributeTypes: ( MSADat2:13
#  NAME 'displayName'
#  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:87
  NAME 'nETBIOSName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1395
  NAME 'mS-SQL-Alias'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:75
  NAME 'maxRenewAge'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:806
  NAME 'treatAsLeaf'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.17'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:960
  NAME 'mSMQNt4Stub'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' )
#
olcAttributeTypes: ( MSADat4:324
  NAME 'packageType'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1212
  NAME 'isEphemeral'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.17'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:36
  NAME 'dMDLocation'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:715
  NAME 'dhcpClasses'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:39
  NAME 'forceLogoff'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:2
  NAME 'whenCreated'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.24'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:566
  NAME 'meetingName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:786
  NAME 'mailAddress'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:590
  NAME 'meetingBlob'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:71
  NAME 'machineRole'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:334
  NAME 'searchFlags'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:3
NAME 'whenChanged'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.24'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:702
NAME 'dhcpObjName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:897
NAME 'aCSMaxAggregatePeakRatePerUser'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:326
NAME 'packageName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:170
NAME 'systemOnly'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:935
NAME 'mSMQOSType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:680
NAME 'queryPoint'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:271
NAME 'printOwner'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:19
NAME 'uSNCreated'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:494
NAME 'siteServer'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
oclAttributeTypes: ( MSADat4:114
  NAME 'rpcNsGroup'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
# NO-USER-MODIFICATION
oclAttributeTypes: ( MSADat4:609
  NAME 'sIDHistory'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
oclAttributeTypes: ( MSADat4:882
  NAME 'rSVersion'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
oclAttributeTypes: ( MSADat4:64
  NAME 'logonHours'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
oclAttributeTypes: ( MSADat4:854
  NAME 'netbootAnswerOnlyValidClients'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
oclAttributeTypes: ( MSADat4:96
  NAME 'pwdLastSet'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
oclAttributeTypes: ( MSADat4:243
  NAME 'printColor'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
oclAttributeTypes: ( MSADat4:1391
  NAME 'mS-SQL-Type'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
oclAttributeTypes: ( MSADat4:40
  NAME 'fromServer'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
oclAttributeTypes: ( MSADat4:157
  NAME 'serverRole'

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SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:100
  NAME 'priorValue'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:169
  NAME 'logonCount'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:90
  NAME 'unicodePwd'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:21
  NAME 'subClassOf'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1396
  NAME 'mS-SQL-Size'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:101
  NAME 'privateKey'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:512
  NAME 'siteObject'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:62
  NAME 'scriptPath'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:223
  NAME 'serverName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1224
  NAME 'parentGUID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:141
  NAME 'department'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:25
  NAME 'mayContain'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )
#
olcAttributeTypes: ( MSADat4:150
  NAME 'adminCount'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:51
  NAME 'lastLogoff'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1409
  NAME 'masteredBy'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:35
  NAME 'employeeID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:719
  NAME 'dhcpMaxKey'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:229
  NAME 'driverName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1363
NAME 'mS-SQL-Name'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE
#
olcAttributeTypes: ( MSADat4:322
NAME 'categoryId'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE
#
olcAttributeTypes: ( MSADat4:889
NAME 'additionalTrustedServiceNames'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#
olcAttributeTypes: ( MSADat4:1354
NAME 'scopeFlags'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE
#
olcAttributeTypes: ( MSADat4:672
NAME 'categories'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#
olcAttributeTypes: ( MSADat4:855
NAME 'netbootNewMachineNamingPolicy'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#
olcAttributeTypes: ( MSADat4:19
NAME 'cOMClassID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:120
NAME 'uSNChanged'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:2
NAME 'objectGUID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE
#
olcAttributeTypes: ( MSADat4:707
NAME 'dhcpRanges'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.44'
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1358
NAME 'schemaInfo'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:646
  NAME 'otherFacsimileTelephoneNumber'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:520
  NAME 'machinePasswordChangeInterval'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:674
  NAME 'rootTrust'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:136
  NAME 'trustType'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:750
  NAME 'groupType'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:896
  NAME 'uSNSource'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:919
  NAME 'mSMQuota'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:927
  NAME 'mSMQSites'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
  # NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:910
  NAME 'fromEntry'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' )
#
olcAttributeTypes: ( MSADat4:1376
  NAME 'mS-SQL-SPX'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:892
  NAME 'gPOptions'n
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:814
  NAME 'msiScript'n
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:285
  NAME 'printRate'n
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:683
  NAME 'cRLPartitionedRevocationList'n
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:652
  NAME 'assistant'n
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:490
  NAME 'fRSDSPoll'n
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:663
  NAME 'partialAttributeDeletionList'n
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:52
  NAME 'lastLogon'n
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:22
  NAME 'governsID'n
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' SINGLE-VALUE )
NAME 'meetingIP'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1321
NAME 'aCSNonReservedMinPolicedSize'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:717
NAME 'dhcpState'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.44' )
#
olcAttributeTypes: ( MSADat4:922
NAME 'mSMQLabel'
SYNTAX 'MSADtelex'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:74
NAME 'maxPwdAge'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:78
NAME 'minPwdAge'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:689
NAME 'cRLObject'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:146
NAME 'objectSid'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:565
NAME 'meetingID'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:620
NAME 'ipsecName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:48
  NAME 'isDeleted'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.17'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:760
  NAME 'aCSAggregateTokenRatePerUser'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:623
  NAME 'ipsecData'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:668
  NAME 'domainCAs'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)
#
olcAttributeTypes: ( MSADat4:653
  NAME 'managedBy'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:402
  NAME 'helpData16'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:653
  NAME 'managedBy'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:9
  NAME 'helpData32'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
)
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:944
  NAME 'mSMQSite2'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:943
  NAME 'mSMQSite1'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:677
  NAME 'replTopologyStayOfExecution'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:912
  NAME 'allowedChildClassesEffective'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
)
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:231
  NAME 'oMSyntax'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:231
  NAME 'priority'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:48
  NAME 'keywords'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)
#
olcAttributeTypes: ( MSADat4:946
  NAME 'mSMQCust'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:821
  NAME 'siteList'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)
#
olcAttributeTypes: ( MSADat4:145
  NAME 'revision'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:91
  NAME 'repsFrom'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:645
  NAME 'userCert'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:951
  NAME 'mSMQQMID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:228
  NAME 'portName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:859
  NAME 'netbootLocallyInstalledOSes'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:261
  NAME 'division'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:902
  NAME 'aCSMaxSizeOfRSVPAccountFile'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:699
  NAME 'dhcpType'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:301
  NAME 'wbemPath'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:362
  NAME 'siteGUID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:26
   NAME 'rDNAttID'  
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:900
   NAME 'aCRSVPAccountFilesLocation'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1226
   NAME 'mSMQDependentClientServices'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:222
   NAME 'location'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:874
   NAME 'fRSFlags'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:219
   NAME 'iconPath'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:688
   NAME 'cAWEBURL'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:716
   NAME 'mscopeId'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.44'
   SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:660
   NAME 'treeName'
   SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
   SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:211
  NAME 'schedule'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:557
  NAME 'parentCA'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:249
  NAME 'cOMCLSID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:675
  NAME 'catalogs'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:102
  NAME 'memberOf'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:690
  NAME 'cAUsages'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:706
  NAME 'dhcpMask'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.44' )
#
olcAttributeTypes: ( MSADat4:511
  NAME 'flatName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:686
  NAME 'domainID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:58
  NAME 'localeID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' )
#
olcAttributeTypes: ( MSADat4:16
  NAME 'codePage'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:768
NAME 'aCSEnableRSVPMessageLogging'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:240
NAME 'printOrientationsSupported'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#
olcAttributeTypes: ( MSADat4:883
NAME 'msRRASVendorAttributeEntry'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#
olcAttributeTypes: ( MSADat4:1246
NAME 'interSiteTopologyGenerator'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:307
NAME 'options'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:28
NAME 'dnsRoot'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#
olcAttributeTypes: ( MSADat4:887
NAME 'IPSECNegotiationPolicyType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1392
NAME 'mSSQL-InformationDirectory'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:365
NAME 'operatingSystemServicePack'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:88
NAME 'nextRid'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:865
  NAME 'pekList'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:7
  NAME 'subRefs'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:505
  NAME 'oMTGuid'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:205
  NAME 'pKTGuid'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:146
  NAME 'company'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:82
  NAME 'moniker'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:156
  NAME 'comment'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:721
  NAME 'ipPhone'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1361
  NAME 'mS-DS-ConsistencyChildCount'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:679
  NAME 'creator'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:137
  NAME 'uNCName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:55
  NAME 'dBCSPwd'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1239
  NAME 'mSMQDependentClientService'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:684
  NAME 'certificateAuthorityObject'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:621
  NAME 'ipsecID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:914
  NAME 'allowedAttributesEffective'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )
#
#olcAttributeTypes: ( MSADat2:598
#NAME 'dmdName'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:759
  NAME 'aCSMaxPeakBandwidthPerFlow'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:557
  NAME 'Enabled'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:326
NAME 'perRecipDialogDisplayTable'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1248
NAME 'interSiteTopologyFailover'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:895
NAME 'transportAddressAttribute'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:852
NAME 'netbootCurrentClientCount'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:372
NAME 'rIDPreviousAllocationPool'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:83
NAME 'repsTo'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:224
NAME 'defaultSecurityDescriptor'
SYNTAX 'MSADsecDesc'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:519
NAME 'lastBackupRestorationTime'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:873
NAME 'RSControlOutboundBacklog'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:255
NAME 'vendor'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:891
  NAME 'gPLink'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:214
  NAME 'originalDisplayTableMSDOS'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:50
  NAME 'linkID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1130
  NAME 'msNPSavedCallingStationID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:49
  NAME 'mAPIID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:510
  NAME 'serviceBindingInformation'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:16
  NAME 'nCName'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1303
  NAME 'tokenGroupsNoGCAcceptable'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:1418
  NAME 'tokenGroupsGlobalAndUniversal'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:1190
NAME 'msRASSavedFramedIPAddress'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:766
NAME 'aCSAllocableRSVPBandwidth'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:61
NAME 'lockOutObservationWindow'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:857
NAME 'netbootIntelliMirrorOSes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:265
NAME 'aCSNonReservedMaxSDUSize'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1320
NAME 'notes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:673
NAME 'retiredReplDSASignatures'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1313
NAME 'aCSMaxTokenBucketPerFlow'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:324
NAME 'addressEntryDisplayTable'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1317
NAME 'aCSMinimumDelayVariation'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:872
NAME 'fRSControlInboundBacklog'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:38
NAME 'flags'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1399
NAME 'mS-SQL-LastDiagnosticDate'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1348
NAME 'gPCMachineExtensionNames'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1411
NAME 'ms-DS-MachineAccountQuota'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:325
NAME 'perMsgDialogDisplayTable'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:57
NAME 'defaultLocalPolicyObject'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1189
NAME 'msRASSavedCallbackNumber'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.26'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:685
NAME 'parentCACertificateChain'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:893
NAME 'gPCFunctionalityVersion'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:879
  NAME 'fRSServiceCommandStatus'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1319
  NAME 'aCSNonReservedTokenSize'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:775
  NAME 'aCSMaxSizeOfRSVPLogFile'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:135
  NAME 'cost'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:81
  NAME 'modifiedCountAtLastProm'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:773
  NAME 'aCSRSVPLogFileLocation'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:81
  NAME 'info'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:125
  NAME 'supplementalCredentials'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:819
  NAME 'bridgeheadTransportList'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:967
  NAME 'mSMQSignCertificatesMig'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
## NO-USER-MODIFICATION
#olcAttributeTypes: ( MSADat4:1
#NAME 'name'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1153
NAME 'msRADIUSFramedIPAddress'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1408
NAME 'mS-DS-ReplicatesNCReason'
SYNTAX 'MSADnWithOctetString'
)
#
olcAttributeTypes: ( MSADat4:899
NAME 'aCSEnableRSVPAccounting'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
#olcAttributeTypes: ( MSADat4:881
#NAME 'fRSTimeLastConfigChange'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.53'
#SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:281
NAME 'printStaplingSupported'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1247
NAME 'interSiteTopologyRenew'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:364
NAME 'operatingSystemVersion'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:91
NAME 'otherLoginWorkstations'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
)
#
olcAttributeTypes: ( MSADat4:849

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NAME 'netbootAllowNewClients'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1372
NAME 'mS-SQL-UnicodeSortOrder'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:749
NAME 'url'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:206
NAME 'pKT'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:199
NAME 'serviceInstanceVersion'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:169
NAME 'showInAdvancedViewOnly'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:758
NAME 'aCSMaxTokenRatePerFlow'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:868
NAME 'isCriticalSystemObject'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:576
NAME 'meetingMaxParticipants'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1208
NAME 'aNR'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:153
  NAME 'rid'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:523
  NAME 'proxyGenerationEnabled'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:871
  NAME 'frsComputerReferenceBL'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)
#
olcAttributeTypes: ( MSADat4:901
  NAME 'physicalLocationObject'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
)
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:928
NAME ‘mSMQOutRoutingServers’
SYNTAX ’1.3.6.1.4.1.1466.115.121.1.12’ )
#
olcAttributeTypes: ( MSADat4:820
NAME ‘bridgeheadServerListBL’
SYNTAX ’1.3.6.1.4.1.1466.115.121.1.12’ )
#
olcAttributeTypes: ( MSADat4:1145
NAME ‘msRADIUSCallbackNumber’
SYNTAX ’1.3.6.1.4.1.1466.115.121.1.26’
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:361
NAME ‘netbootMachineFilePath’
SYNTAX ’1.3.6.1.4.1.1466.115.121.1.15’
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:963
NAME ‘mSMQQueueJournalQuota’
SYNTAX ’1.3.6.1.4.1.1466.115.121.1.27’
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:853
NAME ‘netbootAnswerRequests’
SYNTAX ’1.3.6.1.4.1.1466.115.121.1.7’
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:415
NAME ‘operatingSystemHotfix’
SYNTAX ’1.3.6.1.4.1.1466.115.121.1.15’
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:149
NAME ‘attributeSecurityGUID’
SYNTAX ’1.3.6.1.4.1.1466.115.121.1.40’
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:415
NAME ‘superScopeDescription’
SYNTAX ’1.3.6.1.4.1.1466.115.121.1.15’ )
#
olcAttributeTypes: ( MSADat4:1359
NAME ‘otherWellKnownObjects’
SYNTAX ‘MSADdnWithOctetString’ )
olcAttributeTypes: ( MSADat4:1191
NAME 'msRASSavedFramedRoute'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )
#
olcAttributeTypes: ( MSADat4:752
NAME 'userSharedFolderOther'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
#olcAttributeTypes: ( MSADat2:131
#NAME 'co'
#SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
#SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:909
NAME 'extendedAttributeInfo'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:1241
NAME 'netbootMirrorDataFile'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:1315
NAME 'aCSMinimumPolicedSize'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1353
NAME 'localizationDisplayId'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:582
NAME 'meetingAdvertiseScope'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1343
NAME 'dSUIAdminNotification'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:1381
NAME 'mS-SQL-LastUpdatedDate'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:1357
NAME 'dSCorePropagationData'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.24' 
#
olcAttributeTypes: ( MSADat4:320
NAME 'implementedCategories'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
#
olcAttributeTypes: ( MSADat4:783
NAME 'defaultObjectCategory'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:422
NAME 'domainPolicyReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:929
NAME 'mSMQInRoutingServers'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:1311
NAME 'printDuplexSupported'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:693
NAME 'pendingCACertificates'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:281
NAME 'nTSecurityDescriptor'
SYNTAX 'MSADsecDesc' SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:198
NAME 'systemAuxiliaryClass'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )
#
olcAttributeTypes: ( MSADat4:898
NAME 'aCSNonReservedTxSize'
SYNTAX 'MSADlargeInteger' SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1382
NAME 'mS-SQL-InformationURL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:3
  NAME 'replPropertyMetaData'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1384
  NAME 'mS-SQL-PublicationURL'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:275
  NAME 'printKeepPrintedJobs'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
  SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:267
  NAME 'uSNDSALastObjRemoved'
  SYNTAX 'MSADlargeInteger'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:381
  NAME 'dnsNotifySecondaries'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' )
#
olcAttributeTypes: ( MSADat4:1360
  NAME 'mS-DS-ConsistencyGuid'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:869
  NAME 'frsComputerReference'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1369
  NAME 'mS-SQL-ServiceAccount'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
  SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1124
  NAME 'msNPCallingStationID'
  SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )
#
olcAttributeTypes: ( MSADat4:947
NAME 'mSMQSignCertificates'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:624
NAME 'ipsecOwnersReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:14
NAME 'builtinModifiedCount'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:634
NAME 'privilegeDisplayName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:380
NAME 'dnsSecureSecondaries'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27' )
#
olcAttributeTypes: ( MSADat4:817
NAME 'localizedDescription'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:195
NAME 'systemPossSuperiors'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.38' )
#
olcAttributeTypes: ( MSADat2:353
NAME 'displayNamePrintable'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.44'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:771
NAME 'servicePrincipalName'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:866
NAME 'pekKeyChangeInterval'
SYNTAX 'MSADlargeInteger'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat2:445
NAME 'originalDisplayTable'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1398
NAME 'mS-SQL-LastBackupDate'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:517
NAME 'ipsecPolicyReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:823
NAME 'certificateTemplates'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:15
NAME 'hasPartialReplicaNCs'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:457
NAME 'localPolicyReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat2:380
NAME 'extendedCharsAllowed'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:629
NAME 'ipsecFilterReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:626
NAME 'ipsecISAKMPReference'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:876
NAME 'fRSMemberReferenceBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:314
NAME 'rpcNsTransferSyntax'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1227
NAME 'mSMQRoutingServices'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.17'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1375
NAME 'mS-SQL-MultiProtocol'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:825
NAME 'enrollmentProviders'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:287
NAME 'printNetworkAddress'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1171
NAME 'msRADIUSServiceType'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:631
NAME 'printPagesPerMinute'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:299
NAME 'printMediaSupported'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15' )
#
olcAttributeTypes: ( MSADat4:824
NAME 'signatureAlgorithms'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:877
NAME 'fRSPartnerAuthLevel'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:636
NAME 'privilegeAttributes'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.27'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:640
NAME 'partialAttributeSet'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:850
NAME 'netbootLimitClients'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.7'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1383
NAME 'mS-SQL-ConnectionURL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1406
NAME 'mS-SQL-AllowSnapshotFilesFTPDownloading'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.17'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1331
NAME 'pKIExpirationPeriod'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40'
SINGLE-VALUE )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( MSADat4:531
NAME 'nonSecurityMemberBL'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.12' )
#
olcAttributeTypes: ( MSADat4:540
NAME 'initialAuthOutgoing'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.15'
SINGLE-VALUE )
#
olcAttributeTypes: ( MSADat4:1158
NAME 'msRADIUSFramedRoute'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.26' )
#
olcAttributeTypes: ( MSADat4:200
NAME 'controlAccessRights'
SYNTAX '1.3.6.1.4.1.1466.115.121.1.40' )
olcObjectClasses: (MSADoc5:0 NAME 'mstop' SUP top ABSTRACT
  MUST (objectClass $ instanceType
  $ nTSecurityDescriptor $ objectCategory ) MAY (cn $ description $ distinguishedName
  $ whenCreated $ whenChanged $ subRefs $ displayName $ uSNCreated $ isDeleted
  $ dSASignature $ objectVersion $ repsTo $ repsFrom $ memberOf $ ownerBL
  $ uSNChanged $ uSNLastObjRem $ showInAdvancedViewOnly $ adminBL
  $ proxyAddresses $ adminDescription $ extensionName $ uSNDSALastObjRemoved
  $ displayNamePrintable $ directReports $ WWWHomePage $ USNIntersite $ name
  $ objectGUID $ replPropertyMetaDialog $ replUpToDateVector $ flags $ revision
  $ wbemPath $ fSMORoleOwner $ systemFlags $ siteObjectBL $ serverReferenceBL
  $ nonSecurityMemberBL $ queryPolicyBL $ wellKnownObjects $ isPrivilegeHolder
  $ partialAttributeSet $ managedObjects $ partialAttributeDeletionList $ url
  $ lastKnownParent $ bridgeheadServerListBL $ netbootSCPBL $ isCriticalSystemObject
  $ frsComputerReferenceBL $ fRSMemberReferenceBL $ uSNSource $ fromEntry
  $ allowedChildClasses $ allowedChildClassesEffective $ allowedAttributes
  $ allowedAttributesEffective $ possibleInferiors $ canonicalName $ proxiedObjectName
  $ sDRightsEffective $ dSCorePropagationData $ otherWellKnownObjects
  $ mS-DS-ConsistencyGuid $ mS-DS-ConsistencyChildCount $ masteredBy
  $ msCOM-PartitionSetLink $ msCOM-UserLink $ msDS-Approx-Immed-Subordinates
  $ msDS-NCreplCursors $ msDS-NCreplInboundNeighbors $ msDS-NCreplOutboundNeighbors
  $ msDS-Rep1AttributeMetaDialog $ msDS-Rep1ValueMetaDialog $ msDS-NonMembersBL
  $ msDS-MembersForAzRoleBL $ msDS-OperationsForAzTaskBL $ msDS-TasksForAzTaskBL
  $ msDS-OperationsForAzRoleBL $ msDS-TasksForAzRoleBL $ msDS-masteredBy
  $ msDS-ObjectReferenceBL $ msDS-PrincipalName $ msDS-RevealedDSAs $ msDS-KrbTgtLinkBL
  $ msDS-IsFullReplicaFor $ msDS-IsDomainFor $ msDS-PartialReplicaFor
  $ msDS-AuthenticatedToAccountList $ msDS-NC-RO-Replica-Locations-BL $ msDS-RevealedListBL
  $ msDS-PSOApplied $ msDS-NcType $ msDS-ODIToGroupLinkBL $ msDS-HostServiceAccountBL
  $ isRecycled $ msDS-LocalEffectiveDeletionTime $ msDS-LocalEffectiveRecycleTime
  $ msDS-LastKnownRDN $ msDS-EnabledFeatureList $ msDS-ClaimSharesPossibleValuesWithBL
  $ msDS-MembersOfResourcePropertyListBL $ msDS-IsPrimaryComputerFor
  $ msDS-ValueTypeReferenceBL $ msDS-TDOIngressBL $ msDS-TDOEgressBL $ msDS-parentdistname
  $ msDS-ReplValueMetaDialogExt $ msds-memberOfTransitive $ msds-memberTransitive
  $ msFU30PosixMemberOf $ msFDSPR-RetMemberReferenceBL $ msDS-PR-ComputerReferenceBL )
olcObjectClasses: (MSADoc5:8 NAME 'group' SUP mstop STRUCTURAL
  MUST (groupType ) MAY (member $ nTGroupMembers $ operatorCount $ adminCount
  $ groupAttributes $ groupMembershipSAM $ controlAccessRights $ desktopProfile
  $ nonSecurityMember $ managedBy $ primaryGroupToken $ msDS-AzLDAPQuery
  $ msDS-NonMembers $ msDS-AzBizRule $ msDS-AzBizRuleLanguage $ msDS-AzLastImportedBizRulePath
  $ msDS-AzApplicationData $ msDS-AzObjectGuid $ msDS-AzGenericData
  $ msDS-PrimaryComputer $ mail $ msFU30Name $ msFU30NisDomain $ msFU30PosixMember )
olcObjectClasses: (MSADoc5:9 NAME 'user'
  SUP (mstop $ organizationalPerson ) STRUCTURAL
  MAY (o $ businessCategory $ userCertificate $ givenName $ initials
  $ x500UniqueIdentifier $ displayName $ networkAddress $ employeeNumber
  $ employeeType $ homePostalAddress $ userAccountControl $ badPwdCount
  $ codePage $ homeDirectory $ homeDrive $ badPasswordTime $ lastLogoff
  $ lastLogon $ dBCSPwd $ localeID $ scriptPath $ logonHours $ logonWorkstation

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$ maxStorage $ userWorkstations $ unicodePwd $ otherLoginWorkstations
$ ntPwdHistory $ pwdLastSet $ preferredOU $ primaryGroupID $ userParameters
$ profilePath $ operatorCount $ adminCount $ accountExpires $ lmPwdHistory
$ groupMembershipSAM $ logonCount $ controlAccessRights $ defaultClassStore
$ groupsToIgnore $ groupPriority $ desktopProfile $ dynamicLDAPServer
$ userPrincipalName $ lockoutTime $ userSharedFolder $ userSharedFolderOther
$ servicePrincipalName $ aCSPolicyName $ terminalServer $ mSMQSignCertificates
$ mSMQDigests $ mSMQDigestsMig $ mSMQSignCertificatesMig $ mSNPAIlowDialIn
$ mSNPCallingStationID $ mSNPSavedCallingStationID $ mRADIUSCallbackNumber
$ mRADIUSFramedIPAddress $ mRADIUSFramedRoute $ mRADIUSServiceType
$ mRASSavedFramedIPAddress $ mRASSavedFramedIPv4Address
$ mRASSavedFramedRoute $ mDS-CreatorSID $ mCOM-UserPartitionSetLink
$ mDS-Cached-Membership $ mDS-Cached-Membership-Time-Stamp
$ mDS-Site-Affinity $ mDS-User-Account-Control-Computed $ lastLogonTimestamp
$ mIIS-FTPRoot $ mIIS-FTPDir $ msDRM-IdentityCertificate $ msDS-SourceObjectDN
$ msPKIRoamingTimeStamp $ msPKIDPAPIMasterKeys $ msPKIAccountCredentials
$ mRADIUS-FramedInterfaceId $ mRADIUS-SavedFramedInterfaceId $ mRADIUS-FramedIPv6Prefix
$ mRADIUS-SavedFramedIPv6Prefix $ msRADIUS-FramedIPv6Route $ msRADIUS-SavedFramedIPv6Route
$ mDS-SecondaryKrbTgtNumber $ mDS-AuthenticatedAtDC $ mDS-SupportedEncryptionTypes
$ mDS-LastSuccessfulInteractiveLogonTime $ mDS-LastFailedInteractiveLogonTime
$ mDS-FailedInteractiveLogonCount $ mDS-FailedInteractiveLogonCountAtLastSuccessfulLogon
$ mTSProfilePath $ msTSHomeDirectory $ msTSHomeDrive $ mTSAllowLogon
$ mTSRemoteControl $ mTSMaxDisconnectionTime $ mTSMaxConnectionTime
$ mTSMaxIdleTime $ mTSReconnectionAction $ mTSBrokenConnectionAction
$ mTSCConnectClientDrives $ mTSCConnectPrinterDrives $ mTSDefaultToMainPrinter
$ mTSWorkDirectory $ mTSInitialProgram $ mTSProperty01 $ mTSProperty02
$ mTSExpireDate $ mTSLicenseVersion $ mTSManagingLS
$ mDS-UserPasswordExpiryTimeComputed $ mTSExpireDate2 $ mTSLicenseVersion2
$ mTSManagingLS2 $ mTSExpireDate3 $ mTSLicenseVersion3 $ mTSManagingLS3
$ mTSExpireDate4 $ mTSLicenseVersion4 $ mTSManagingLS4 $ mTSLSProperty01
$ mTSLSProperty02 $ mDS-ResultantPSO $ mPKI-CredentialRoamingTokens
$ mTSPrimaryDesktop $ mTSSecondaryDesktops $ mDS-PrimaryComputer $ mDS-SyncServerUrl
$ mDS-AssignedAuthNPolicySilo $ mDS-AuthNPolicySiloMembersBL
$ mDS-AssignedAuthNPolicy $ userSMIMECertificate $ uid $ mail $ roomNumber
$ photo $ manager $ homePhone $ secretary $ mobile $ pager $ audio $ jpegPhoto
$ carLicense $ departmentNumber $ preferredLanguage $ userPKCS12 $ labeledURI
$ msSFU30Name $ msSFU30NisDomain ) )

#objectclass ( MSADoc3:23 NAME 'container' SUP mstop STRUCTURAL
#MUST ( cn ) MAY ( schemaVersion $ defaultClassStore $ mDS-ObjectReference ) )
olcObjectClasses: ( 1.2.840.113556.1.3.30 NAME 'computer' SUP user STRUCTURAL
MAY ( cn $ networkAddress $ localPolicyFlags $ defaultLocalPolicyObject $ machineRole
$ location $ netbootInitialization $ netbootGUID $ netbootMachineFilePath
$ siteGUID $ operatingSystem $ operatingSystemVersion $ operatingSystemServicePack
$ operatingSystemHotfix $ volumeCount $ physicalLocationObject $ DNSHost Name
$ policyReplicationFlags $ managedBy $ rIDSetReferences $ catalogs
$ netbootStIFile $ netbootMirrorDataFile $ mDS-AdditionalDnsHostName
$ mDS-AdditionalSamAccountName $ mDS-ExecuteScriptPassword $ mDS-KrbTgtLink
$ mDS-RevealedUsers $ mDS-NeverRevealGroup $ mDS-RevealOnDemandGroup

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Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/msuser.ldif

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# $OpenLDAP$
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## top-level directory of the distribution or, alternatively, at
##
## This file is provided for informational purposes only.
##
## These definitions are from Sun DSEE 7's cn=schema subentry.
## None of the attributes had matching rules defined; we've
## inserted usable ones as needed.
##
## Some of these attributes are defined with NO-USER-MODIFICATION,
## but slapd won't load such definitions from user-modifiable schema
## files. So that designation has been removed, and commented accordingly.
##
## dn: cn=dsee,cn=schema,cn=config
objectClass: olcSchemaConfig
cn: dsee
#
olcObjectIdentifier: NetscapeRoot 2.16.840.1.113730
olcObjectIdentifier: NetscapeDS NetscapeRoot:3
olcObjectIdentifier: NSDSatNetscapeDS:1
olcObjectIdentifier: NSDSoc NetscapeDS:2
olcObjectIdentifier: SunRoot 1.3.6.1.4.1.42
olcObjectIdentifier: SunDS SunRoot:2.27
olcAttributeTypes: ( NSDSat:5
NAME 'changeNumber'
DESC 'Changelog attribute type'
EQUALITY integerMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.27
X-ORIGIN 'Changelog Internet Draft' )
#
olcAttributeTypes: ( NSDSat:6
NAME 'targetDn'
DESC 'Changelog attribute type'
EQUALITY distinguishedNameMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.12
X-ORIGIN 'Changelog Internet Draft' )
#
olcAttributeTypes: ( NSDSat:7
NAME 'changeType'
DESC 'Changelog attribute type'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
X-ORIGIN 'Changelog Internet Draft' )
#
# They claim Binary syntax but it's really octetString
olcAttributeTypes: ( NSDSat:8
NAME 'changes'
DESC 'Changelog attribute type'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.5
X-ORIGIN 'Changelog Internet Draft' )
#
olcAttributeTypes: ( NSDSat:9
NAME 'newRdn'
DESC 'Changelog attribute type'
EQUALITY distinguishedNameMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.12
X-ORIGIN 'Changelog Internet Draft' )
#
olcAttributeTypes: ( NSDSat:10
NAME 'deleteOldRdn'
DESC 'Changelog attribute type'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.7
X-ORIGIN 'Changelog Internet Draft' )
#
olcAttributeTypes: ( NSDSat:11
NAME 'newSuperior'
DESC 'Changelog attribute type'
EQUALITY distinguishedNameMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.12
X-ORIGIN 'Changelog Internet Draft' )
#
# should be generalizedTime, but they used directoryString instead...
olcAttributeTypes: ( NSDSat:77
NAME 'changeTime'
DESC 'Sun ONE defined attribute type'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
X-ORIGIN 'Sun ONE Directory Server' )
#
# These are UUIDs, but (of course) hyphenated differently than ours.
# NO-USER-MODIFICATION
olcAttributeTypes: ( NSDSat:542
NAME 'nsUniqueId'
DESC 'Sun ONE defined attribute type'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
SINGLE-VALUE
X-ORIGIN 'Sun ONE Directory Server' )
#
# NO-USER-MODIFICATION
olcAttributeTypes: ( SunDS:9.1.596
NAME 'targetUniqueId'
DESC 'RetroChangelog attribute type'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15
SINGLE-VALUE
X-ORIGIN 'Sun Directory Server' )
#
olcObjectclasses: ( NSDSoc:1
NAME 'changeLogEntry'
DESC 'LDAP changelog objectclass'
SUP top STRUCTURAL
MUST ( targetDn $ changeTime $ changeNumber $ changeType )
MAY ( changes $ newRdn $ deleteOldRdn $ newSuperior )
X-ORIGIN 'Changelog Internet Draft' )

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-
r0/etc/openldap/schema/dsee.ldif
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# dyngroup.schema -- Dynamic Group schema
#$OpenLDAP$
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## top-level directory of the distribution or, alternatively, at
#
# Dynamic Group schema (experimental), as defined by Netscape. See
# page 70 for details on how these groups were used.
#
# A description of the objectclass definition is available here:
# http://www.redhat.com/docs/manuals/dir-server/schema/7.1/oc_dir.html#1303745
#
# depends upon:
#       core.schema
#
# These definitions are considered experimental due to the lack of
# a formal specification (e.g., RFC).
#
# NOT RECOMMENDED FOR PRODUCTION USE! USE WITH CAUTION!
#
# The Netscape documentation describes this as an auxiliary objectclass
# but their implementations have always defined it as a structural class.
# The sloppiness here is because Netscape-derived servers don't actually
# implement the X.500 data model, and they don't honor the distinction
# between structural and auxiliary classes. This fact is noted here:
# http://forum.java.sun.com/thread.jspa?threadID=5016864&messageID=9034636
#
# In accordance with other existing implementations, we define it as a
# structural class.
#
# Our definition of memberURL also does not match theirs but again
# their published definition and what works in practice do not agree.
# In other words, the Netscape definitions are broken and interoperability
# is not guaranteed.
#
# Also see the new DynGroup proposed spec at
# http://tools.ietf.org/html/draft-haripriya-dynamicgroup-02
dn: cn=dyngroup,cn=schema,cn=config
objectClass: olcSchemaConfig
cn: dynigroup
olcObjectIdentifier: {0}NetscapeRoot 2.16.840.1.113730
olcObjectIdentifier: {1}NetscapeLDAP NetscapeRoot:3
olcObjectIdentifier: {2}NetscapeLDAPAttributeType NetscapeLDAP:1
olcObjectIdentifier: {3}NetscapeLDAPObjectClass NetscapeLDAP:2
olcObjectIdentifier: {4}OpenLDAPExp11 1.3.6.1.4.1.4203.666.11
olcObjectIdentifier: {5}DynGroupBase OpenLDAPExp11:8
olcObjectIdentifier: {6}DynGroupAttr DynGroupBase:1
olcObjectIdentifier: {7}DynGroupOC DynGroupBase:2
olcAttributeTypes: {0}( NetscapeLDAPattributeType:198 NAME 'memberURL' DESC 'Identifies an URL associated with each member of a group. Any type of labeled
URL can be used.’ SUP labeledURI )
olcAttributeTypes: \{1\}( DynGroupAttr:1 NAME '<dgIdentity' DESC 'Identity to use
when processing the memberURL' SUP distinguishedName SINGLE-VALUE )
olcAttributeTypes: \{2\}( DynGroupAttr:2 NAME '<dgAuthz' DESC 'Optional authoriza-
tion rules that determine who is allowed to assume the <dgIdentity' EQUALITY a-
uthzMatch SYNTAX 1.3.6.1.4.1.4203.666.2.7 X-ORDERED 'VALUES' )
olcAttributeTypes: \{3\}( DynGroupAttr:3 NAME '<dgMemberOf' DESC 'Group that the
entry belongs to' EQUALITY distinguishedNameMatch SYNTAX 1.3.6.1.4.1.1466.115 .121.1.12 )
olcObjectClasses: \{0\}( NetscapeLDAPobjectClass:33 NAME 'groupOfURLs' SUP top S-
TRUCTURAL MUST cn MAY ( memberURL $ businessCategory $ description $ o $ ou $ 
owner $ seeAlso ) )
olcObjectClasses: \{1\}( DynGroupOC:1 NAME '<dgIdentityAux' SUP top AUXILIARY MAY
( <dgIdentity $ <dgAuthz ) )

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-
r0/etc/openldap/schema/dyngroup.ldif
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# OpenLDAP X.509 PMI schema
# $OpenLDAP$
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#
# Includes LDAPv3 schema items from:
# ITU X.509 (08/2005)
#
# This file was automatically generated from pmi.schema; see that file
# for complete references.
#
dn: cn=pmi,cn=schema,cn=config
objectClass: olcSchemaConfig
cn: pmi
olcObjectIdentifier: \{0\}id-oc-pmiUser 2.5.6.24


olcAttributeTypes: {5}( id-at-attributeCertificateRevocationList NAME 'attributeCertificateRevocationList' DESC 'X.509 Attribute certificate revocation list attribute, use :binary' SYNTAX CertificateList X-EQUALITY 'certificateListExactMatch, not implemented yet' )

olcAttributeTypes: {6}( id-at-attributeAuthorityRevocationList NAME 'attribute AuthorityRevocationList' DESC 'X.509 AA certificate revocation list attribute, use :binary' SYNTAX CertificateList X-EQUALITY 'certificateListExactMatch, not implemented yet' )

olcAttributeTypes: {7}( id-at-delegationPath NAME 'delegationPath' DESC 'X.509 Delegation path attribute, use :binary' SYNTAX AttCertPath )

olcAttributeTypes: {8}( id-at-privPolicy NAME 'privPolicy' DESC 'X.509 Privilege policy attribute, use :binary' SYNTAX PolicySyntax )

olcAttributeTypes: {9}( id-at-protPrivPolicy NAME 'protPrivPolicy' DESC 'X.509 Protected privilege policy attribute, use :binary' EQUALITY attributeCertificateExactMatch SYNTAX AttributeCertificate )

olcAttributeTypes: {10}( id-at-xmlPrivPolicy NAME 'xmlPrivPolicy' DESC 'X.509 XML Protected privilege policy attribute' SYNTAX 1.3.6.1.4.1.1466.115.12 1.1.15 )

olcObjectClasses: {0}( id-oc-pmiUser NAME 'pmiUser' DESC 'X.509 PMI user object class' SUP top AUXILIARY MAY attributeCertificateAttribute )

olcObjectClasses: {1}( id-oc-pmiAA NAME 'pmiAA' DESC 'X.509 PMI AA object class' SUP top AUXILIARY MAY ( aCertificate $ attributeCertificateRevocationList $ attributeAuthorityRevocationList ) )

olcObjectClasses: {2}( id-oc-pmiSOA NAME 'pmiSOA' DESC 'X.509 PMI SOA object class' SUP top AUXILIARY MAY ( attributeCertificateRevocationList $ attributeAuthorityRevocationList $ attributeDescriptorCertificate ) )

olcObjectClasses: {3}( id-oc-attCertCRLDistributionPts NAME 'attCertCRLDistributionPts' DESC 'X.509 Attribute certificate CRL distribution point object class' SUP top AUXILIARY MAY ( attributeCertificateRevocationList $ attributeAuthorityRevocationList ) )

olcObjectClasses: {4}( id-oc-pmiDelegationPath NAME 'pmiDelegationPath' DESC 'X.509 PMI delegation path' SUP top AUXILIARY MAY delegationPath )

olcObjectClasses: {5}( id-oc-privilegePolicy NAME 'privilegePolicy' DESC 'X.509 Privilege policy object class' SUP top AUXILIARY MAY privilegePolicy )

olcObjectClasses: {6}( id-oc-protectedPrivilegePolicy NAME 'protectedPrivilegePolicy' DESC 'X.509 Protected privilege policy object class' SUP top AUXILIARY MAY protPrivPolicy )

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Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/pmi.ldif
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## DUA schema from draft-joslin-config-schema (a work in progress)
## This file was automatically generated from duaconf.schema; see that file
## for complete references.
##
dn: cn=duaconf,cn=schema,cn=config
objectClass: olcSchemaConfig
cn: duaconf
olcObjectIdentifier: {0}DUAConfSchemaOID 1.3.6.1.4.1.11.1.3.1
olcAttributeTypes: {0}( DUAConfSchemaOID:1.0 NAME 'defaultServerList' DESC 'Default LDAP server host address used by a DUA' EQUALITY caseIgnoreMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 SINGLE-VALUE )
olcAttributeTypes: {1}( DUAConfSchemaOID:1.1 NAME 'defaultSearchBase' DESC 'Default LDAP base DN used by a DUA' EQUALITY distinguishedNameMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 SINGLE-VALUE )
olcAttributeTypes: {2}( DUAConfSchemaOID:1.2 NAME 'preferredServerList' DESC 'Preferred LDAP server host addresses to be used by a DUA' EQUALITY caseIgnoreMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 SINGLE-VALUE )
olcAttributeTypes: {3}( DUAConfSchemaOID:1.3 NAME 'searchTimeLimit' DESC 'Maximum time in seconds a DUA should allow for a search to complete' EQUALITY integerMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )
olcAttributeTypes: {4}( DUAConfSchemaOID:1.4 NAME 'bindTimeLimit' DESC 'Maximum time in seconds a DUA should allow for the bind operation to complete' EQUALITY integerMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )
olcAttributeTypes: {5}( DUAConfSchemaOID:1.5 NAME 'followReferrals' DESC 'Tell a DUA if it should follow referrals returned by a DSA search result' EQUALITY booleanMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.17 SINGLE-VALUE )
olcAttributeTypes: {6}( DUAConfSchemaOID:1.16 NAME 'dereferenceAliases' DESC 'Dereference aliases' EQUALITY booleanMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.17 SINGLE-VALUE )
Tells DUA if it should dereference aliases' EQUALITY booleanMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.7 SINGLE-VALUE

olcAttributeTypes: {7}( DUACConfSchemaOID:1.6 NAME 'authenticationMethod' DESC 'A keystring which identifies the type of authentication method used to contact the DSA' EQUALITY caseIgnoreMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.7 SINGLE-VALUE

olcAttributeTypes: {8}( DUACConfSchemaOID:1.7 NAME 'profileTTL' DESC 'Time to live, in seconds, before a client DUA should re-read this configuration profile' EQUALITY integerMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE

olcAttributeTypes: {9}( DUACConfSchemaOID:1.14 NAME 'serviceSearchDescriptor' DESC 'LDAP search descriptor list used by a DUA' EQUALITY caseExactMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.15

olcAttributeTypes: {10}( DUACConfSchemaOID:1.9 NAME 'attributeMap' DESC 'Attribute mappings used by a DUA' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26

olcAttributeTypes: {11}( DUACConfSchemaOID:1.10 NAME 'credentialLevel' DESC 'Identifies type of credentials a DUA should use when binding to the LDAP server' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26

olcAttributeTypes: {12}( DUACConfSchemaOID:1.11 NAME 'objectclassMap' DESC 'Objectclass mappings used by a DUA' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26

olcAttributeTypes: {13}( DUACConfSchemaOID:1.12 NAME 'defaultSearchScope' DESC 'Default search scope used by a DUA' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26

olcAttributeTypes: {14}( DUACConfSchemaOID:1.13 NAME 'serviceCredentialLevel' DESC 'Identifies type of credentials a DUA should use when binding to the LDAP server for a specific service' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26

olcAttributeTypes: {15}( DUACConfSchemaOID:1.15 NAME 'serviceAuthenticationMethod' DESC 'Authentication method used by a service of the DUA' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.15

olcObjectClasses: {0}( DUACConfSchemaOID:2.5 NAME 'DUACConfigProfile' DESC 'Abstraction of a base configuration for a DUA' SUP top STRUCTURAL MUST cn MAY ( defaultServerList $ preferredServerList $ defaultSearchBase $ defaultSearchScope $ searchTimeLimit $ bindTimeLimit $ credentialLevel $ authenticationMethod $ followReferrals $ dereferenceAliases $ serviceSearchDescriptor $ serviceCredentialLevel $ serviceAuthenticationMethod $ objectclassMap $ attributeMap $ profileTTL )

Found in path(s):
* /opt/ cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/duaconf.ldif

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##
## Definitions from draft Structural Object Classes for Named Objects
##
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##
## # Depends upon core.schema and cosine.schema

# 2.1. 'namedObject'
#
# The 'namedObject' object class definition is the basis of an entry
# that represents an arbitrary named object. The attribute 'cn' MUST
# be added to the entry. The attributes 'uniqueIdentifier' and
# 'description' MAY be added to the entry.
objectclass ( 1.3.6.1.4.1.5427.1.389.6.20
NAME 'namedObject'
SUP top
STRUCTURAL
MUST ( cn )
MAY ( uniqueIdentifier $ description )
)

# 2.2. 'namedPolicy'
#
# The 'namedPolicy' object class definition is sub-classed from
# 'namedObject'. It SHOULD only be used for entries which represents
# an arbitrary policy. A typical example would be to use it along with
# auxiliary object class 'pwdPolicy' defined in
objectclass ( 1.3.6.1.4.1.5427.1.389.6.21
NAME 'namedPolicy'
SUP namedObject
STRUCTURAL )

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/namedobject.schema
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#
#
# Includes LDAPv3 schema items from:
#RFC 2252/2256 (LDAPv3)
# Select standard track schema items:
# RFC 1274 (uid/dc)
# RFC 2079 (URI)
# RFC 2247 (dc/dcObject)
# RFC 2587 (PKI)
# RFC 2589 (Dynamic Directory Services)
# RFC 4524 (associatedDomain)
#
# Select informational schema items:
# RFC 2377 (uidObject)
#
# Standard attribute types from RFC 2256
#
# system schema
# attributetype ( 2.5.4.0 NAME 'objectClass'
# DESC 'RFC2256: object classes of the entity'
# EQUALITY objectIdentifierMatch
# SYNTAX 1.3.6.1.4.1.1466.115.121.1.38 )

# system schema
# attributetype ( 2.5.4.1 NAME ( 'aliasedObjectName' 'aliasedEntryName' )
# DESC 'RFC2256: name of aliased object'
# EQUALITY distinguishedNameMatch
# SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 SINGLE-VALUE )

attributetype ( 2.5.4.2 NAME 'knowledgeInformation'
DESC 'RFC2256: knowledge information'
EQUALITY caseIgnoreMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{32768} )

# system schema
# attributetype ( 2.5.4.3 NAME ( 'cn' 'commonName' )
# DESC 'RFC2256: common name(s) for which the entity is known by'
# SUP name )

attributetype ( 2.5.4.4 NAME ( 'sn' 'surname' )
DESC 'RFC2256: last (family) name(s) for which the entity is known by'
SUP name )

attributetype ( 2.5.4.5 NAME 'serialNumber'
DESC 'RFC2256: serial number of the entity'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{64} )
# RFC 4519 definition ('countryName' in X.500 and RFC2256)
attributetype ( 2.5.4.6 NAME ( 'c' 'countryName' )
DESC 'RFC4519: two-letter ISO-3166 country code'
SUP name
SYNTAX 1.3.6.1.4.1.1466.115.121.1.11
SINGLE-VALUE )

#attributetype ( 2.5.4.6 NAME ( 'c' 'countryName' )
#DESC 'RFC2256: ISO-3166 country 2-letter code'
#SUP name SINGLE-VALUE )

attributetype ( 2.5.4.7 NAME ( 'l' 'localityName' )
DESC 'RFC2256: locality which this object resides in'
SUP name )

attributetype ( 2.5.4.8 NAME ( 'st' 'stateOrProvinceName' )
DESC 'RFC2256: state or province which this object resides in'
SUP name )

attributetype ( 2.5.4.9 NAME ( 'street' 'streetAddress' )
DESC 'RFC2256: street address of this object'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{128} )

attributetype ( 2.5.4.10 NAME ( 'o' 'organizationName' )
DESC 'RFC2256: organization this object belongs to'
SUP name )

attributetype ( 2.5.4.11 NAME ( 'ou' 'organizationalUnitName' )
DESC 'RFC2256: organizational unit this object belongs to'
SUP name )

attributetype ( 2.5.4.12 NAME 'title'
DESC 'RFC2256: title associated with the entity'
SUP name )

# system schema
#attributetype ( 2.5.4.13 NAME 'description'
#DESC 'RFC2256: descriptive information'
#EQUALITY caseIgnoreMatch
#SUBSTR caseIgnoreSubstringsMatch
#SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{1024} )

# Deprecated by enhancedSearchGuide
attributetype ( 2.5.4.14 NAME 'searchGuide'
DESC 'RFC2256: search guide, deprecated by enhancedSearchGuide'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.25 )
attributetype ( 2.5.4.15 NAME 'businessCategory' 
DESC 'RFC2256: business category' 
EQUALITY caseIgnoreMatch 
SUBSTR caseIgnoreSubstringsMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{128} )

attributetype ( 2.5.4.16 NAME 'postalAddress' 
DESC 'RFC2256: postal address' 
EQUALITY caseIgnoreListMatch 
SUBSTR caseIgnoreListSubstringsMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.41 )

attributetype ( 2.5.4.17 NAME 'postalCode' 
DESC 'RFC2256: postal code' 
EQUALITY caseIgnoreMatch 
SUBSTR caseIgnoreSubstringsMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{40} )

attributetype ( 2.5.4.18 NAME 'postOfficeBox' 
DESC 'RFC2256: Post Office Box' 
EQUALITY caseIgnoreMatch 
SUBSTR caseIgnoreSubstringsMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{40} )

attributetype ( 2.5.4.19 NAME 'physicalDeliveryOfficeName' 
DESC 'RFC2256: Physical Delivery Office Name' 
EQUALITY caseIgnoreMatch 
SUBSTR caseIgnoreSubstringsMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{128} )

attributetype ( 2.5.4.20 NAME 'telephoneNumber' 
DESC 'RFC2256: Telephone Number' 
EQUALITY telephoneNumberMatch 
SUBSTR telephoneNumberSubstringsMatch 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.50{32} )

attributetype ( 2.5.4.21 NAME 'telexNumber' 
DESC 'RFC2256: Telex Number' 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.52 )

attributetype ( 2.5.4.22 NAME 'teletexTerminalIdentifier' 
DESC 'RFC2256: Teletex Terminal Identifier' 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.51 )

attributetype ( 2.5.4.23 NAME 'facsimileTelephoneNumber' 'fax' 
DESC 'RFC2256: Facsimile (Fax) Telephone Number' 
SYNTAX 1.3.6.1.4.1.1466.115.121.1.22 )
attributetype ( 2.5.4.24 NAME 'x121Address'
DESC 'RFC2256: X.121 Address'
EQUALITY numericStringMatch
SUBSTR numericStringSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.36{15} )

attributetype ( 2.5.4.25 NAME 'internationalISDNNumber'
DESC 'RFC2256: international ISDN number'
EQUALITY numericStringMatch
SUBSTR numericStringSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.36{16} )

attributetype ( 2.5.4.26 NAME 'registeredAddress'
DESC 'RFC2256: registered postal address'
SUP postalAddress
SYNTAX 1.3.6.1.4.1.1466.115.121.1.41 )

attributetype ( 2.5.4.27 NAME 'destinationIndicator'
DESC 'RFC2256: destination indicator'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{128} )

attributetype ( 2.5.4.28 NAME 'preferredDeliveryMethod'
DESC 'RFC2256: preferred delivery method'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.14
SINGLE-VALUE )

attributetype ( 2.5.4.29 NAME 'presentationAddress'
DESC 'RFC2256: presentation address'
EQUALITY presentationAddressMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.43
SINGLE-VALUE )

attributetype ( 2.5.4.30 NAME 'supportedApplicationContext'
DESC 'RFC2256: supported application context'
EQUALITY objectIdentifierMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.38 )

attributetype ( 2.5.4.31 NAME 'member'
DESC 'RFC2256: member of a group'
SUP distinguishedName )

attributetype ( 2.5.4.32 NAME 'owner'
DESC 'RFC2256: owner (of the object)'
SUP distinguishedName )
attributetype ( 2.5.4.33 NAME 'roleOccupant'
DESC 'RFC2256: occupant of role'
SUP distinguishedName )

# system schema
#attributetype ( 2.5.4.34 NAME 'seeAlso'
#DESC 'RFC2256: DN of related object'
#SUP distinguishedName )

# system schema
#attributetype ( 2.5.4.35 NAME 'userPassword'
#DESC 'RFC2256/2307: password of user'
#EQUALITY octetStringMatch
#SYNTAX 1.3.6.1.4.1.1466.115.121.1.40{128} )

# Must be transferred using ;binary
# with certificateExactMatch rule (per X.509)
attributetype ( 2.5.4.36 NAME 'userCertificate'
DESC 'RFC2256: X.509 user certificate, use ;binary'
EQUALITY certificateExactMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.8 )

# Must be transferred using ;binary
# with certificateExactMatch rule (per X.509)
attributetype ( 2.5.4.37 NAME 'cACertificate'
DESC 'RFC2256: X.509 CA certificate, use ;binary'
EQUALITY certificateExactMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.8 )

# Must be transferred using ;binary
attributetype ( 2.5.4.38 NAME 'authorityRevocationList'
DESC 'RFC2256: X.509 authority revocation list, use ;binary'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.9 )

# Must be transferred using ;binary
attributetype ( 2.5.4.39 NAME 'certificateRevocationList'
DESC 'RFC2256: X.509 certificate revocation list, use ;binary'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.9 )

# Must be stored and requested in the binary form
attributetype ( 2.5.4.40 NAME 'crossCertificatePair'
DESC 'RFC2256: X.509 cross certificate pair, use ;binary'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.10 )

# system schema
#attributetype ( 2.5.4.41 NAME 'name'
#EQUALITY caseIgnoreMatch
#SUBSTR caseIgnoreSubstringsMatch
attributetype ( 2.5.4.42 NAME ('givenName' 'gn')
DESC 'RFC2256: first name(s) for which the entity is known by'
SUP name )

attributetype ( 2.5.4.43 NAME 'initials'
DESC 'RFC2256: initials of some or all of names, but not the surname(s).'
SUP name )

attributetype ( 2.5.4.44 NAME 'generationQualifier'
DESC 'RFC2256: name qualifier indicating a generation'
SUP name )

attributetype ( 2.5.4.45 NAME 'x500UniqueIdentifier'
DESC 'RFC2256: X.500 unique identifier'
EQUALITY bitStringMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.6 )

attributetype ( 2.5.4.46 NAME 'dnQualifier'
DESC 'RFC2256: DN qualifier'
EQUALITY caseIgnoreMatch
ORDERING caseIgnoreOrderingMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.44 )

attributetype ( 2.5.4.47 NAME 'enhancedSearchGuide'
DESC 'RFC2256: enhanced search guide'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.21 )

attributetype ( 2.5.4.48 NAME 'protocolInformation'
DESC 'RFC2256: protocol information'
EQUALITY protocolInformationMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.42 )

# system schema
#attributetype ( 2.5.4.49 NAME 'distinguishedName'
#EQUALITY distinguishedNameMatch
#SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )

attributetype ( 2.5.4.50 NAME 'uniqueMember'
DESC 'RFC2256: unique member of a group'
EQUALITY uniqueMemberMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.34 )

attributetype ( 2.5.4.51 NAME 'houseIdentifier'
DESC 'RFC2256: house identifier'
EQUALITY caseIgnoreMatch
# Must be transferred using :binary
attributetype ( 2.5.4.52 NAME 'supportedAlgorithms'
DESC 'RFC2256: supported algorithms'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.49 )

# Must be transferred using :binary
attributetype ( 2.5.4.53 NAME 'deltaRevocationList'
DESC 'RFC2256: delta revocation list; use :binary'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.9 )

attributetype ( 2.5.4.54 NAME 'dmdName'
DESC 'RFC2256: name of DMD'
SUP name )

attributetype ( 2.5.4.65 NAME 'pseudonym'
DESC 'X.520(4th): pseudonym for the object'
SUP name )

# Standard object classes from RFC2256

# system schema
#objectclass ( 2.5.6.0 NAME 'top'
#DESC 'RFC2256: top of the superclass chain'
#ABSTRACT
#MUST objectClass )

# system schema
#objectclass ( 2.5.6.1 NAME 'alias'
#DESC 'RFC2256: an alias'
#SUP top STRUCTURAL
#MUST aliasedObjectName )

objectclass ( 2.5.6.2 NAME 'country'
DESC 'RFC2256: a country'
SUP top STRUCTURAL
MUST c
MAY ( searchGuide $ description ) )

objectclass ( 2.5.6.3 NAME 'locality'
DESC 'RFC2256: a locality'
SUP top STRUCTURAL
MAY ( street $ seeAlso $ searchGuide $ st $ l $ description ) )

objectclass ( 2.5.6.4 NAME 'organization'
DESC 'RFC2256: an organization'
SUP top STRUCTURAL
MUST o
MAY ( userPassword $ searchGuide $ seeAlso $ businessCategory $ x121Address $ registeredAddress $ destinationIndicator $ preferredDeliveryMethod $ telexNumber $ teletexTerminalIdentifier $ telephoneNumber $ internationalISDNNumber $ facsimileTelephoneNumber $ street $ postOfficeBox $ postalCode $ postalAddress $ physicalDeliveryOfficeName $ st $ l $ description ) )

objectclass ( 2.5.6.5 NAME 'organizationalUnit'
DESC 'RFC2256: an organizational unit'
SUP top STRUCTURAL
MUST ou
MAY ( userPassword $ searchGuide $ seeAlso $ businessCategory $ x121Address $ registeredAddress $ destinationIndicator $ preferredDeliveryMethod $ telexNumber $ teletexTerminalIdentifier $ telephoneNumber $ internationalISDNNumber $ facsimileTelephoneNumber $ street $ postOfficeBox $ postalCode $ postalAddress $ physicalDeliveryOfficeName $ st $ l $ description ) )

objectclass ( 2.5.6.6 NAME 'person'
DESC 'RFC2256: a person'
SUP top STRUCTURAL
MUST ( sn $ cn )
MAY ( userPassword $ telephoneNumber $ seeAlso $ description ) )

objectclass ( 2.5.6.7 NAME 'organizationalPerson'
DESC 'RFC2256: an organizational person'
SUP person STRUCTURAL
MAY ( title $ x121Address $ registeredAddress $ destinationIndicator $ preferredDeliveryMethod $ telexNumber $ teletexTerminalIdentifier $ telephoneNumber $ internationalISDNNumber $ facsimileTelephoneNumber $ street $ postOfficeBox $ postalCode $ postalAddress $ physicalDeliveryOfficeName $ ou $ st $ l ) )

objectclass ( 2.5.6.8 NAME 'organizationalRole'
DESC 'RFC2256: an organizational role'
SUP top STRUCTURAL
MUST cn
MAY ( x121Address $ registeredAddress $ destinationIndicator $ preferredDeliveryMethod $ telexNumber $ teletexTerminalIdentifier $ telephoneNumber $ internationalISDNNumber $ facsimileTelephoneNumber $ street $ postOfficeBox $ postalCode $ postalAddress $ physicalDeliveryOfficeName $ ou $ st $ l ) )

objectclass ( 2.5.6.9 NAME 'groupOfNames'
DESC 'RFC2256: a group of names (DNs)'

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objectclass ( 2.5.6.10 NAME 'residentialPerson'
DESC 'RFC2256: an residential person'
SUP person STRUCTURAL
MUST cn
MAY ( businessCategory $ seeAlso $ owner $ ou $ o $ description ) )

objectclass ( 2.5.6.11 NAME 'applicationProcess'
DESC 'RFC2256: an application process'
SUP top STRUCTURAL
MUST cn
MAY ( seeAlso $ ou $ l $ description ) )

objectclass ( 2.5.6.12 NAME 'applicationEntity'
DESC 'RFC2256: an application entity'
SUP top STRUCTURAL
MUST ( presentationAddress $ cn )
MAY ( supportedApplicationContext $ seeAlso $ ou $ o $ l $ description ) )

objectclass ( 2.5.6.13 NAME 'dSA'
DESC 'RFC2256: a directory system agent (a server)'
SUP applicationEntity STRUCTURAL
MAY knowledgeInformation )

objectclass ( 2.5.6.14 NAME 'device'
DESC 'RFC2256: a device'
SUP top STRUCTURAL
MUST cn
MAY ( serialNumber $ seeAlso $ owner $ ou $ o $ l $ description ) )

objectclass ( 2.5.6.15 NAME 'strongAuthenticationUser'
DESC 'RFC2256: a strong authentication user'
SUP top AUXILIARY
MUST userCertificate )

objectclass ( 2.5.6.16 NAME 'certificationAuthority'
DESC 'RFC2256: a certificate authority'
SUP top AUXILIARY
MUST ( authorityRevocationList $ certificateRevocationList $

---

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cACertificate ) MAY crossCertificatePair )

objectclass ( 2.5.6.17 NAME 'groupOfUniqueNames'
DESC 'RFC2256: a group of unique names (DN and Unique Identifier)'
SUP top STRUCTURAL
MUST ( uniqueMember $ cn )
MAY ( businessCategory $ seeAlso $ owner $ ou $ o $ description )

objectclass ( 2.5.6.18 NAME 'userSecurityInformation'
DESC 'RFC2256: a user security information'
SUP top AUXILIARY
MAY ( supportedAlgorithms )

objectclass ( 2.5.6.16.2 NAME 'certificationAuthority-V2'
SUP certificationAuthority
AUXILIARY MAY ( deltaRevocationList )

objectclass ( 2.5.6.19 NAME 'cRLDistributionPoint'
SUP top STRUCTURAL
MUST ( cn )
MAY ( certificateRevocationList $ authorityRevocationList $
deltaRevocationList )

objectclass ( 2.5.6.20 NAME 'dmd'
SUP top STRUCTURAL
MUST ( dmdName )
MAY ( userPassword $ searchGuide $ seeAlso $ businessCategory $
x121Address $ registeredAddress $ destinationIndicator $
preferredDeliveryMethod $ telexNumber $ teletexTerminalIdentifier $
telephoneNumber $ internationalISDNNumber $ facsimileTelephoneNumber $
street $ postOfficeBox $ postalCode $ postalAddress $
physicalDeliveryOfficeName $ st $ l $ description )

#
# Object Classes from RFC 2587
#
objectclass ( 2.5.6.21 NAME 'pkiUser'
DESC 'RFC2587: a PKI user'
SUP top AUXILIARY
MAY userCertificate )

objectclass ( 2.5.6.22 NAME 'pkiCA'
DESC 'RFC2587: PKI certificate authority'
SUP top AUXILIARY
MAY ( authorityRevocationList $ certificateRevocationList $
cACertificate $ crossCertificatePair )

objectclass ( 2.5.6.23 NAME 'deltaCRL'
DESC 'RFC4523: X.509 delta CRL'
SUP top AUXILIARY
MAY deltaRevocationList

# Standard Track URI label schema from RFC 2079
# system schema
#attributetype ( 1.3.6.1.4.1.250.1.57 NAME 'labeledURI'
#DESC 'RFC2079: Uniform Resource Identifier with optional label'
#EQUALITY caseExactMatch
#SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )

objectclass ( 1.3.6.1.4.1.250.3.15 NAME 'labeledURIObject'
DESC 'RFC2079: object that contains the URI attribute type'
SUP top AUXILIARY
MAY ( labeledURI ) )

#
# Derived from RFC 1274, but with new "short names"
#
#attributetype ( 0.9.2342.19200300.100.1.1
#NAME ( 'uid' 'userid' )
#DESC 'RFC1274: user identifier'
#EQUALITY caseIgnoreMatch
#SUBSTR caseIgnoreIA5SubstringsMatch
#SYNTAX 1.3.6.1.4.1.1466.115.121.1.15(256) )

attributetype ( 0.9.2342.19200300.100.1.3
NAME ( 'mail' 'rfc822Mailbox' )
DESC 'RFC1274: RFC822 Mailbox'
EQUALITY caseIgnoreIA5Match
SUBSTR caseIgnoreIA5SubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26(256) )

objectclass ( 0.9.2342.19200300.100.4.19 NAME 'simpleSecurityObject'
DESC 'RFC1274: simple security object'
SUP top AUXILIARY
MUST userPassword )

# RFC 1274 + RFC 2247
attributetype ( 0.9.2342.19200300.100.1.25
NAME ('dc' 'domainComponent')
DESC 'RFC1274/2247: domain component'
EQUALITY caseIgnoreIA5Match
SUBSTR caseIgnoreIA5SubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 SINGLE-VALUE )

# RFC 2247
objectclass ( 1.3.6.1.4.1.1466.344 NAME 'dcObject'
DESC 'RFC2247: domain component object'
SUP top AUXILIARY MUST dc )

# RFC 2377
objectclass ( 1.3.6.1.1.3.1 NAME 'uidObject'
DESC 'RFC2377: uid object'
SUP top AUXILIARY MUST uid )

# RFC 4524
# The 'associatedDomain' attribute specifies DNS [RFC1034][RFC2181]
# host names [RFC1123] that are associated with an object. That is,
# values of this attribute should conform to the following ABNF:
#
# domain = root / label *( DOT label )
# root = SPACE
# label = LETDIG [ *61( LETDIG / HYPHEN ) LETDIG ]
# LETDIG = %x30-39 / %x41-5A / %x61-7A ; "0" - "9" / "A"-"Z" / "a"-"z"
# SPACE = %x20 ; space (" ")
# HYPHEN = %x2D ; hyphen ("-")
# DOT = %x2E ; period (".")
attributetype ( 0.9.2342.19200300.100.1.37
NAME 'associatedDomain'
DESC 'RFC1274: domain associated with object'
EQUALITY caseIgnoreIA5Match
SUBSTR caseIgnoreIA5SubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

# RFC 2459 -- deprecated in favor of 'mail' (in cosine.schema)
attributetype ( 1.2.840.113549.1.9.1
NAME ( 'email' 'emailAddress' 'pkcs9email' )
DESC 'RFC3280: legacy attribute for email addresses in DNs'
EQUALITY caseIgnoreIA5Match
SUBSTR caseIgnoreIA5SubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{128} )

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-
  r0/etc/openldap/schema/core.schema
No license file was found, but licenses were detected in source scan.

# $OpenLDAP$
### This work is part of OpenLDAP Software <http://www.openldap.org/>.
###
### Copyright 2021 The OpenLDAP Foundation.
### All rights reserved.
###
### Redistribution and use in source and binary forms, with or without
## Definitions from draft Structural Object Classes for Named Objects
## Portions Copyright (c) 2013 IETF Trust and the persons identified as the
## document authors. All rights reserved.

# Depends upon core.ldif and cosine.ldif
#
# This file was automatically generated from namedobject.schema; see
# that file for complete references.
#
dn: cn=namedobject,cn=schema,cn=config
objectClass: olcSchemaConfig

olcObjectClasses: ( 1.3.6.1.4.1.5427.1.389.6.20 NAME 'namedObject' SUP top STRUCTURAL MUST cn MAY ( uniqueIdentifier $ description ) )
olcObjectClasses: ( 1.3.6.1.4.1.5427.1.389.6.21 NAME 'namedPolicy' SUP name dObject STRUCTURAL )

Found in path(s):
*/opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-r0/etc/openldap/schema/namedobject.ldif
No license file was found, but licenses were detected in source scan.

# OpenLDAP Core schema
# $OpenLDAP$
## This work is part of OpenLDAP Software <http://www.openldap.org/>.
## Copyright 1998-2021 The OpenLDAP Foundation.
## All rights reserved.
##
## Redistribution and use in source and binary forms, with or without
## modification, are permitted only as authorized by the OpenLDAP
## Public License.
##
## A copy of this license is available in the file LICENSE in the
## top-level directory of the distribution or, alternatively, at
#
## Portions Copyright (C) The Internet Society (1997-2003).
## All Rights Reserved.
Includes LDAPv3 schema items from:

- RFC 2252/2256 (LDAPv3)
- RFC 1274 (uid/dc)
- RFC 2079 (URI)
- RFC 2247 (dc/dcObject)
- RFC 2587 (PKI)
- RFC 2589 (Dynamic Directory Services)

Select informational schema items:
- RFC 2377 (uidObject)

Standard attribute types from RFC 2256
- dn: cn=core,cn=schema,cn=config
  objectClass: olcSchemaConfig
  cn: core

# system schema
# olcAttributeTypes: ( 2.5.4.0 NAME 'objectClass'
# DESC 'RFC2256: object classes of the entity'
# EQUALITY objectIdentifierMatch
# SYNTAX 1.3.6.1.4.1.1466.115.121.1.38 )
#
# system schema
# olcAttributeTypes: ( 2.5.4.1 NAME 'aliasedObjectName' 'aliasedEntryName'
# DESC 'RFC2256: name of aliased object'
# EQUALITY distinguishedNameMatch
# SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 SINGLE-VALUE )
#
olcAttributeTypes: ( 2.5.4.2 NAME 'knowledgeInformation'
 DESC 'RFC2256: knowledge information'
 EQUALITY caseIgnoreMatch
 SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{32768} )
#
# system schema
# olcAttributeTypes: ( 2.5.4.3 NAME 'cn' 'commonName'
# DESC 'RFC2256: common name(s) for which the entity is known by'
# SUP name )
#
olcAttributeTypes: ( 2.5.4.4 NAME 'sn' 'surname'
 DESC 'RFC2256: last (family) name(s) for which the entity is known by'
 SUP name )
#
olcAttributeTypes: ( 2.5.4.5 NAME 'serialNumber'
 DESC 'RFC2256: serial number of the entity'
 EQUALITY caseIgnoreMatch
 SUBSTR caseIgnoreSubstringsMatch
 SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{64} )
#
# RFC 4519 definition ('countryName' in X.500 and RFC2256)
olcAttributeTypes: ( 2.5.4.6 NAME 'c' 'countryName'
 DESC 'RFC4519: two-letter ISO-3166 country code'
 SUP name
 SYNTAX 1.3.6.1.4.1.1466.115.121.1.11
 SINGLE-VALUE )
#
olcAttributeTypes: ( 2.5.4.7 NAME 'l' 'localityName'
 DESC 'RFC2256: locality which this object resides in'
 SUP name )
#
olcAttributeTypes: ( 2.5.4.8 NAME 'st' 'stateOrProvinceName'
 DESC 'RFC2256: state or province which this object resides in'
 SUP name )
#
olcAttributeTypes: ( 2.5.4.9 NAME 'street' 'streetAddress'
 DESC 'RFC2256: street address of this object'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{128} )
#
olcAttributeTypes: ( 2.5.4.10 NAME ( 'o' 'organizationName' )
DESC 'RFC2256: organization this object belongs to'
SUP name )
#
olcAttributeTypes: ( 2.5.4.11 NAME ( 'ou' 'organizationalUnitName' )
DESC 'RFC2256: organizational unit this object belongs to'
SUP name )
#
olcAttributeTypes: ( 2.5.4.12 NAME 'title'
DESC 'RFC2256: title associated with the entity'
SUP name )
#
# system schema
#olcAttributeTypes: ( 2.5.4.13 NAME 'description'
#DESC 'RFC2256: descriptive information'
#EQUALITY caseIgnoreMatch
#SUBSTR caseIgnoreSubstringsMatch
#SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{1024} )
#
# Deprecated by enhancedSearchGuide
olcAttributeTypes: ( 2.5.4.14 NAME 'searchGuide'
DESC 'RFC2256: search guide, deprecated by enhancedSearchGuide'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.25 )
#
olcAttributeTypes: ( 2.5.4.15 NAME 'businessCategory'
DESC 'RFC2256: business category'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{128} )
#
olcAttributeTypes: ( 2.5.4.16 NAME 'postalAddress'
DESC 'RFC2256: postal address'
EQUALITY caseIgnoreListMatch
SUBSTR caseIgnoreListSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.41 )
#
olcAttributeTypes: ( 2.5.4.17 NAME 'postalCode'
DESC 'RFC2256: postal code'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{40} )
#
olcAttributeTypes: ( 2.5.4.18 NAME 'postOfficeBox'
DESC 'RFC2256: Post Office Box'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{40} )
#
olcAttributeTypes: ( 2.5.4.19 NAME 'physicalDeliveryOfficeName'
DESC 'RFC2256: Physical Delivery Office Name'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{128} )
#
olcAttributeTypes: ( 2.5.4.20 NAME 'telephoneNumber'
DESC 'RFC2256: Telephone Number'
EQUALITY telephoneNumberMatch
SUBSTR telephoneNumberSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.50{32} )
#
olcAttributeTypes: ( 2.5.4.21 NAME 'telexNumber'
DESC 'RFC2256: Telex Number'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.52 )
#
olcAttributeTypes: ( 2.5.4.22 NAME 'teletexTerminalIdentifier'
DESC 'RFC2256: Teletex Terminal Identifier'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.51 )
#
olcAttributeTypes: ( 2.5.4.23 NAME 'facsimileTelephoneNumber' 'fax'
DESC 'RFC2256: Facsimile (Fax) Telephone Number'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.22 )
#
olcAttributeTypes: ( 2.5.4.24 NAME 'x121Address'
DESC 'RFC2256: X.121 Address'
EQUALITY numericStringMatch
SUBSTR numericStringSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.36{15} )
#
olcAttributeTypes: ( 2.5.4.25 NAME 'internationalISDNNumber'
DESC 'RFC2256: international ISDN number'
EQUALITY numericStringMatch
SUBSTR numericStringSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.36{16} )
#
olcAttributeTypes: ( 2.5.4.26 NAME 'registeredAddress'
DESC 'RFC2256: registered postal address'
SUP postalAddress
SYNTAX 1.3.6.1.4.1.1466.115.121.1.41 )
#
olcAttributeTypes: ( 2.5.4.27 NAME 'destinationIndicator'
DESC 'RFC2256: destination indicator'
EQUALITY caseIgnoreMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{128} )
#
olcAttributeTypes: ( 2.5.4.28 NAME 'preferredDeliveryMethod'
DESC 'RFC2256: preferred delivery method'
SYNTAX 1.3.6.1.4.1.1466.115.121.1.14
SINGLE-VALUE )
#
olcAttributeTypes: ( 2.5.4.29 NAME 'presentationAddress'
DESC 'RFC2256: presentation address'
EQUALITY presentationAddressMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.43
SINGLE-VALUE )
#
olcAttributeTypes: ( 2.5.4.30 NAME 'supportedApplicationContext'
DESC 'RFC2256: supported application context'
EQUALITY objectIdentifierMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.38 )
#
olcAttributeTypes: ( 2.5.4.31 NAME 'member'
DESC 'RFC2256: member of a group'
SUP distinguishedName )
#
olcAttributeTypes: ( 2.5.4.32 NAME 'owner'
DESC 'RFC2256: owner (of the object)'
SUP distinguishedName )
#
olcAttributeTypes: ( 2.5.4.33 NAME 'roleOccupant'
DESC 'RFC2256: occupant of role'
SUP distinguishedName )
#
# system schema
#olcAttributeTypes: ( 2.5.4.34 NAME 'seeAlso'
#DESC 'RFC2256: DN of related object'
#SUP distinguishedName )
#
# system schema
#olcAttributeTypes: ( 2.5.4.35 NAME 'userPassword'
#DESC 'RFC2256/2307: password of user'
#EQUALITY octetStringMatch
#SYNTAX 1.3.6.1.4.1.1466.115.121.1.40{128} )
#
# Must be transferred using ;binary
# with certificateExactMatch rule (per X.509)
olcAttributeTypes: ( 2.5.4.36 NAME 'userCertificate'
DESC 'RFC2256: X.509 user certificate, use ;binary'
EQUALITY certificateExactMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.8 )
# Must be transferred using ;binary
# with certificateExactMatch rule (per X.509)
olcAttributeTypes: ( 2.5.4.37 NAME 'cACertificate'
  DESC 'RFC2256: X.509 CA certificate, use ;binary'
  EQUALITY certificateExactMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.8 )
#
# Must be transferred using ;binary
olcAttributeTypes: ( 2.5.4.38 NAME 'authorityRevocationList'
  DESC 'RFC2256: X.509 authority revocation list, use ;binary'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.9 )
#
# Must be transferred using ;binary
olcAttributeTypes: ( 2.5.4.39 NAME 'certificateRevocationList'
  DESC 'RFC2256: X.509 certificate revocation list, use ;binary'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.9 )
#
# Must be stored and requested in the binary form
olcAttributeTypes: ( 2.5.4.40 NAME 'crossCertificatePair'
  DESC 'RFC2256: X.509 cross certificate pair, use ;binary'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.10 )
#
# 2.5.4.41 is defined above as it's used for subtyping
#olcAttributeTypes: ( 2.5.4.41 NAME 'name'
#  EQUALITY caseIgnoreMatch
#  SUBSTR caseIgnoreSubstringsMatch
#  SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{32768} )
#
olcAttributeTypes: ( 2.5.4.42 NAME ('givenName' 'gn')
  DESC 'RFC2256: first name(s) for which the entity is known by'
  SUP name )
#
olcAttributeTypes: ( 2.5.4.43 NAME 'initials'
  DESC 'RFC2256: initials of some or all of names, but not the surname(s).'
  SUP name )
#
olcAttributeTypes: ( 2.5.4.44 NAME 'generationQualifier'
  DESC 'RFC2256: name qualifier indicating a generation'
  SUP name )
#
olcAttributeTypes: ( 2.5.4.45 NAME 'x500UniqueIdentifier'
  DESC 'RFC2256: X.500 unique identifier'
  EQUALITY bitStringMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.6 )
#
olcAttributeTypes: ( 2.5.4.46 NAME 'dnQualifier'
  DESC 'RFC2256: DN qualifier'
EQUALITY caseIgnoreMatch
ORDERING caseIgnoreOrderingMatch
SUBSTR caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.44 )
#
olcAttributeTypes: ( 2.5.4.47 NAME 'enhancedSearchGuide'
  DESC 'RFC2256: enhanced search guide'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.21 )
#
olcAttributeTypes: ( 2.5.4.48 NAME 'protocolInformation'
  DESC 'RFC2256: protocol information'
  EQUALITY protocolInformationMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.42 )
#
  # 2.5.4.49 is defined above as it's used for subtyping
  #olcAttributeTypes: ( 2.5.4.49 NAME 'distinguishedName'
  #EQUALITY distinguishedNameMatch
  #SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )
#
olcAttributeTypes: ( 2.5.4.50 NAME 'uniqueMember'
  DESC 'RFC2256: unique member of a group'
  EQUALITY uniqueMemberMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.34 )
#
olcAttributeTypes: ( 2.5.4.51 NAME 'houseIdentifier'
  DESC 'RFC2256: house identifier'
  EQUALITY caseIgnoreMatch
  SUBSTR caseIgnoreSubstringsMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{32768} )
#
  # Must be transferred using ;binary
olcAttributeTypes: ( 2.5.4.52 NAME 'supportedAlgorithms'
  DESC 'RFC2256: supported algorithms'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.49 )
#
  # Must be transferred using ;binary
olcAttributeTypes: ( 2.5.4.53 NAME 'deltaRevocationList'
  DESC 'RFC2256: delta revocation list; use ;binary'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.9 )
#
olcAttributeTypes: ( 2.5.4.54 NAME 'dmdName'
  DESC 'RFC2256: name of DMD'
  SUP name )
#
olcAttributeTypes: ( 2.5.4.65 NAME 'pseudonym'
  DESC 'X.520(4th): pseudonym for the object'
  SUP name )
#
# Standard object classes from RFC2256
#
# system schema
#
olcObjectClasses: ( 2.5.6.1 NAME 'alias'
DESC 'RFC2256: an alias'
SUP top STRUCTURAL
MUST aliasedObjectName )
#
olcObjectClasses: ( 2.5.6.2 NAME 'country'
DESC 'RFC2256: a country'
SUP top STRUCTURAL
MAY ( searchGuide $ description )
#
olcObjectClasses: ( 2.5.6.3 NAME 'locality'
DESC 'RFC2256: a locality'
SUP top STRUCTURAL
MAY ( street $ seeAlso $ searchGuide $ st $ l $ description )
#
olcObjectClasses: ( 2.5.6.4 NAME 'organization'
DESC 'RFC2256: an organization'
SUP top STRUCTURAL
MUST o
MAY ( userPassword $ searchGuide $ seeAlso $ businessCategory $
x121Address $ registeredAddress $ destinationIndicator $
preferredDeliveryMethod $ telexNumber $ teletexTerminalIdentifier $
telephoneNumber $ internationalISDNNumber $
facsimileTelephoneNumber $ street $ postOfficeBox $ postalCode $
postalAddress $ physicalDeliveryOfficeName $ st $ l $ description )
#
olcObjectClasses: ( 2.5.6.5 NAME 'organizationalUnit'
DESC 'RFC2256: an organizational unit'
SUP top STRUCTURAL
MUST ou
MAY ( userPassword $ searchGuide $ seeAlso $ businessCategory $
x121Address $ registeredAddress $ destinationIndicator $
preferredDeliveryMethod $ telexNumber $ teletexTerminalIdentifier $
telephoneNumber $ internationalISDNNumber $
facsimileTelephoneNumber $ street $ postOfficeBox $ postalCode $
postalAddress $ physicalDeliveryOfficeName $ st $ l $ description )
#
olcObjectClasses: ( 2.5.6.6 NAME 'person'
DESC 'RFC2256: a person'
SUP top STRUCTURAL
MUST ( sn $ cn )
MAY ( userPassword $ telephoneNumber $ seeAlso $ description )
#
olcObjectClasses: ( 2.5.6.7 NAME 'organizationalPerson'
DESC 'RFC2256: an organizational person'
SUP person STRUCTURAL
MAY ( title $ x121Address $ registeredAddress $ destinationIndicator $ preferredDeliveryMethod $ telexNumber $ teletexTerminalIdentifier $ telephoneNumber $ internationalISDNNumber $ facsimileTelephoneNumber $ street $ postOfficeBox $ postalCode $ postalAddress $ physicalDeliveryOfficeName $ ou $ st $ l )
#
olcObjectClasses: ( 2.5.6.8 NAME 'organizationalRole'
DESC 'RFC2256: an organizational role'
SUP top STRUCTURAL
MUST cn
MAY ( x121Address $ registeredAddress $ destinationIndicator $ preferredDeliveryMethod $ telexNumber $ teletexTerminalIdentifier $ telephoneNumber $ internationalISDNNumber $ facsimileTelephoneNumber $ seeAlso $ roleOccupant $ preferredDeliveryMethod $ street $ postOfficeBox $ postalCode $ postalAddress $ physicalDeliveryOfficeName $ ou $ st $ l $ description )
#
olcObjectClasses: ( 2.5.6.9 NAME 'groupOfNames'
DESC 'RFC2256: a group of names (DNs)'
SUP top STRUCTURAL
MUST ( member $ cn )
MAY ( businessCategory $ seeAlso $ owner $ ou $ o $ description )
#
olcObjectClasses: ( 2.5.6.10 NAME 'residentialPerson'
DESC 'RFC2256: an residential person'
SUP person STRUCTURAL
MUST l
MAY ( businessCategory $ x121Address $ registeredAddress $ destinationIndicator $ preferredDeliveryMethod $ telexNumber $ teletexTerminalIdentifier $ telephoneNumber $ internationalISDNNumber $ facsimileTelephoneNumber $ preferredDeliveryMethod $ street $ postOfficeBox $ postalCode $ postalAddress $ physicalDeliveryOfficeName $ st $ l )
#
olcObjectClasses: ( 2.5.6.11 NAME 'applicationProcess'
DESC 'RFC2256: an application process'
SUP top STRUCTURAL
MUST cn
MAY ( seeAlso $ ou $ l $ description )
#
olcObjectClasses: ( 2.5.6.12 NAME 'applicationEntity'
DESC 'RFC2256: an application entity'
SUP top STRUCTURAL
MUST ( presentationAddress $ cn )
MAY ( supportedApplicationContext $ seeAlso $ ou $ o $ l $ description )
olcObjectClasses: ( 2.5.6.13 NAME 'dSA'
DESC 'RFC2256: a directory system agent (a server)
SUP applicationEntity STRUCTURAL
MAY knowledgeInformation )

olcObjectClasses: ( 2.5.6.14 NAME 'device'
DESC 'RFC2256: a device'
SUP top STRUCTURAL
MUST cn
MAY ( serialNumber $ seeAlso $ owner $ ou $ o $ l $ description )

olcObjectClasses: ( 2.5.6.15 NAME 'strongAuthenticationUser'
DESC 'RFC2256: a strong authentication user'
SUP top AUXILIARY
MUST userCertificate )

olcObjectClasses: ( 2.5.6.16 NAME 'certificationAuthority'
DESC 'RFC2256: a certificate authority'
SUP top AUXILIARY
MUST ( authorityRevocationList $ certificateRevocationList $ cACertificate ) MAY crossCertificatePair )

olcObjectClasses: ( 2.5.6.17 NAME 'groupOfUniqueNames'
DESC 'RFC2256: a group of unique names (DN and Unique Identifier)
SUP top STRUCTURAL
MUST ( uniqueMember $ cn )
MAY ( businessCategory $ seeAlso $ owner $ ou $ o $ description )

olcObjectClasses: ( 2.5.6.18 NAME 'userSecurityInformation'
DESC 'RFC2256: a user security information'
SUP top AUXILIARY
MAY ( supportedAlgorithms )

olcObjectClasses: ( 2.5.6.16.2 NAME 'certificationAuthority-V2'
SUP certificationAuthority
AUXILIARY MAY ( deltaRevocationList )

olcObjectClasses: ( 2.5.6.19 NAME 'cRLDistributionPoint'
SUP top STRUCTURAL
MUST ( cn )
MAY ( certificateRevocationList $ authorityRevocationList $ deltaRevocationList )

olcObjectClasses: ( 2.5.6.20 NAME 'dmd'
SUP top STRUCTURAL
MUST ( dmdName )
MAY ( userPassword $ searchGuide $ seeAlso $ businessCategory $
OlcObjectClasses: ( 2.5.6.21 NAME 'pkiUser'
DESC 'RFC2587: a PKI user'
SUP top AUXILIARY
MAY userCertificate )
#
olcObjectClasses: ( 2.5.6.22 NAME 'pkiCA'
DESC 'RFC2587: PKI certificate authority'
SUP top AUXILIARY
MAY ( authorityRevocationList $ certificateRevocationList $ cACertificate $ crossCertificatePair )
#
olcObjectClasses: ( 2.5.6.23 NAME 'deltaCRL'
DESC 'RFC4523: X.509 delta CRL'
SUP top AUXILIARY
MAY deltaRevocationList )
#
# Standard Track URI label schema from RFC 2079
# system schema
#olcAttributeTypes: ( 1.3.6.1.4.1.250.1.57 NAME 'labeledURI'
#DESC 'RFC2079: Uniform Resource Identifier with optional label'
#EQUALITY caseExactMatch
#SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )
#
olcObjectClasses: ( 1.3.6.1.4.1.250.3.15 NAME 'labeledURIObject'
DESC 'RFC2079: object that contains the URI attribute type'
MAY ( labeledURI )
SUP top AUXILIARY )
#
# Derived from RFC 1274, but with new "short names"
#
#olcAttributeTypes: ( 0.9.2342.19200300.100.1.1
#NAME ( 'uid' 'userid' )
#DESC 'RFC1274: user identifier'
#EQUALITY caseIgnoreMatch
#SUBSTR caseIgnoreSubstringsMatch
#SYNTAX 1.3.6.1.4.1.1466.115.121.1.15(256) )
#
olcAttributeTypes: ( 0.9.2342.19200300.100.1.3
NAME ('mail' 'rfc822Mailbox')
DESC 'RFC1274: RFC822 Mailbox'
EQUALITY caseIgnoreIA5Match
SUBSTR caseIgnoreIA5SubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26(256) )
#
olcObjectClasses: ( 0.9.2342.19200300.100.4.19 NAME 'simpleSecurityObject'
DESC 'RFC1274: simple security object'
SUP top AUXILIARY
MUST userPassword )
#
# RFC 1274 + RFC 2247
olcAttributeTypes: ( 0.9.2342.19200300.100.1.25
NAME ('dc' 'domainComponent')
DESC 'RFC1274/2247: domain component'
EQUALITY caseIgnoreIA5Match
SUBSTR caseIgnoreIA5SubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 SINGLE-VALUE )
#
# RFC 2247
olcObjectClasses: ( 1.3.6.1.4.1.1466.344 NAME 'dcObject'
DESC 'RFC2247: domain component object'
SUP top AUXILIARY MUST dc )
#
# RFC 2377
olcObjectClasses: ( 1.3.6.1.1.3.1 NAME 'uidObject'
DESC 'RFC2377: uid object'
SUP top AUXILIARY MUST uid )
#
# From COSINE Pilot
olcAttributeTypes: ( 0.9.2342.19200300.100.1.37
NAME 'associatedDomain'
DESC 'RFC1274: domain associated with object'
EQUALITY caseIgnoreIA5Match
SUBSTR caseIgnoreIA5SubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
#
# RFC 2459 -- deprecated in favor of 'mail' (in cosine.schema)
olcAttributeTypes: ( 1.2.840.113549.1.9.1
NAME ('email' 'emailAddress' 'pkcs9email')
DESC 'RFC3280: legacy attribute for email addresses in DNs'
EQUALITY caseIgnoreIA5Match
SUBSTR caseIgnoreIA5SubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{128} )
#

Found in path(s):
No license file was found, but licenses were detected in source scan.

```plaintext
# misc.schema -- assorted schema definitions
# $OpenLDAP$
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#
# Assorted definitions from several sources, including
# "works in progress". Contents of this file are
# subject to change (including deletion) without notice.
#
# Not recommended for production use!
# Use with extreme caution!

#-----------------------------------------------
# draft-lachman-laser-ldap-mail-routing-02.txt !!!EXPIRED!!!
# (a work in progress)
#
attributetype ( 2.16.840.1.113730.3.1.13
NAME 'mailLocalAddress'
DESC 'RFC822 email address of this recipient'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26(256) )

attributetype ( 2.16.840.1.113730.3.1.18
NAME 'mailHost'
DESC 'FQDN of the SMTP/MTA of this recipient'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26(256) SINGLE-VALUE )

attributetype ( 2.16.840.1.113730.3.1.47
NAME 'mailRoutingAddress'
DESC 'RFC822 routing address of this recipient'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26(256)
```
SINGLE-VALUE

# I-D leaves this OID TBD.
# iPlanet uses 2.16.840.1.113.730.3.2.147 but that is an
# improperly delegated OID. A typo is likely.
objectclass ( 2.16.840.1.113730.3.2.147
NAME 'inetLocalMailRecipient'
DESC 'Internet local mail recipient'
SUP top AUXILIARY
MAY( mailLocalAddress $ mailHost $ mailRoutingAddress )

#-----------------------------------------------------------
# draft-srivastava-ldap-mail-00.txt !!!EXPIRED!!!
# (a work in progress)
#
attributetype ( 1.3.6.1.4.1.42.2.27.2.1.15
NAME 'rfc822MailMember'
DESC 'rfc822 mail address of group member(s)'
EQUALITY caseIgnoreIA5Match
SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

#-----------------------------------------------------------
# !!!no I-D!!!
# (a work in progress)
#
objectclass ( 1.3.6.1.4.1.42.2.27.1.2.5
NAME 'nisMailAlias'
DESC 'NIS mail alias'
SUP top STRUCTURAL
MUST cn
MAY rfc822MailMember )

Found in path(s):
  */opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-tar-gz/openldap-2.6.0-
r0/etc/openldap/schema/misc.schema
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# NIS (RFC2307)
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###
## Definitions from RFC2307 (Experimental)

An Approach for Using LDAP as a Network Information Service

Depends upon core.ldif and cosine.ldif

This file was automatically generated from nis.schema; see that file for complete references.

dn: cn=nis,cn=schema,cn=config
objectClass: olcSchemaConfig
cn: nis

olcAttributeTypes: ( 1.3.6.1.1.1.1.2 NAME 'gecos' DESC 'The GECOS field; the common name' EQUALITY caseIgnoreIA5Match SUBSTR caseIgnoreIA5SubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 SINGLE-VALUE )

olcAttributeTypes: ( 1.3.6.1.1.1.1.3 NAME 'homeDirectory' DESC 'The absolute path to the home directory' EQUALITY caseExactIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 SINGLE-VALUE )

olcAttributeTypes: ( 1.3.6.1.1.1.1.4 NAME 'loginShell' DESC 'The path to the login shell' EQUALITY caseExactIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 SINGLE-VALUE )

olcAttributeTypes: ( 1.3.6.1.1.1.1.5 NAME 'shadowLastChange' EQUALITY integerMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

olcAttributeTypes: ( 1.3.6.1.1.1.1.6 NAME 'shadowMin' EQUALITY integerMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

olcAttributeTypes: ( 1.3.6.1.1.1.1.7 NAME 'shadowMax' EQUALITY integerMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

olcAttributeTypes: ( 1.3.6.1.1.1.1.8 NAME 'shadowWarning' EQUALITY integerMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

olcAttributeTypes: ( 1.3.6.1.1.1.1.9 NAME 'shadowInactive' EQUALITY integerMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

olcAttributeTypes: ( 1.3.6.1.1.1.1.10 NAME 'shadowExpire' EQUALITY integerMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

olcAttributeTypes: ( 1.3.6.1.1.1.1.11 NAME 'shadowFlag' EQUALITY integerMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )

olcAttributeTypes: ( 1.3.6.1.1.1.1.12 NAME 'memberUid' EQUALITY caseExactIA5Match SUBSTR caseExactIA5SubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

olcAttributeTypes: ( 1.3.6.1.1.1.1.13 NAME 'memberNisNetgroup' EQUALITY caseExactIA5Match SUBSTR caseExactIA5SubstringsMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )

olcAttributeTypes: ( 1.3.6.1.1.1.1.14 NAME 'nisNetgroupTriple' DESC 'Netgroup triple' EQUALITY caseExactIA5Match SUBSTR caseExactIA5SubstringsMatch SYNTAX 1.3.6.1.1.1.0.0 )

olcAttributeTypes: ( 1.3.6.1.1.1.1.15 NAME 'ipServicePort' EQUALITY integerMatch SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )
olcAttributeTypes: ( 1.3.6.1.1.1.1.16 NAME 'ipServiceProtocol' SUP name )
olcAttributeTypes: ( 1.3.6.1.1.1.1.17 NAME 'ipProtocolNumber' EQUALITY integer Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )
olcAttributeTypes: ( 1.3.6.1.1.1.1.18 NAME 'oncRpcNumber' EQUALITY integer Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 SINGLE-VALUE )
olcAttributeTypes: ( 1.3.6.1.1.1.1.19 NAME 'ipHostNumber' DESC 'IP address' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26[128] )
olcAttributeTypes: ( 1.3.6.1.1.1.1.20 NAME 'ipNetworkNumber' DESC 'IP network' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26[128] SINGLE-VALUE )
olcAttributeTypes: ( 1.3.6.1.1.1.1.21 NAME 'ipNetmaskNumber' DESC 'IP netmask' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26[128] SINGLE-VALUE )
olcAttributeTypes: ( 1.3.6.1.1.1.1.22 NAME 'macAddress' DESC 'MAC address' EQUALITY caseIgnoreIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26[128] )
olcAttributeTypes: ( 1.3.6.1.1.1.1.23 NAME 'bootParameter' DESC 'rpc.bootp aramd parameter' SYNTAX 1.3.6.1.1.1.0.1 )
olcAttributeTypes: ( 1.3.6.1.1.1.1.24 NAME 'bootFile' DESC 'Boot image name' EQUALITY caseExactIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
olcAttributeTypes: ( 1.3.6.1.1.1.1.26 NAME 'nisMapName' SUP name )
olcAttributeTypes: ( 1.3.6.1.1.1.1.27 NAME 'nisMapEntry' EQUALITY caseExactIA5Match SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{1024} SINGLE-VALUE )
olcObjectClasses: ( 1.3.6.1.1.2.0 NAME 'posixAccount' DESC 'Abstraction of an account with POSIX attributes' SUP top AUXILIARY MUST ( cn $ uid $ uidNumber $ gidNumber $ homeDirectory ) MAY ( userPassword $ loginShell $ gecos $ description )
olcObjectClasses: ( 1.3.6.1.1.2.1 NAME 'shadowAccount' DESC 'Additional attributes for shadow passwords' SUP top AUXILIARY MUST uid MAY ( userPassword $ shadowLastChange $ shadowMin $ shadowMax $ shadowWarning $ shadowInactive $ shadowExpire $ shadowFlag $ description )
olcObjectClasses: ( 1.3.6.1.1.2.2 NAME 'posixGroup' DESC 'Abstraction of a group of accounts' SUP top STRUCTURAL MUST ( cn $ gidNumber ) MAY ( userPassword $ memberUid $ description )
olcObjectClasses: ( 1.3.6.1.1.2.3 NAME 'ipService' DESC 'Abstraction of an Internet Protocol service' SUP top STRUCTURAL MUST ( cn $ ipServicePort $ ipServiceProtocol ) MAY description )
olcObjectClasses: ( 1.3.6.1.1.2.4 NAME 'ipProtocol' DESC 'Abstraction of an IP protocol' SUP top STRUCTURAL MUST ( cn $ ipProtocolNumber $ description ) MAY description )
olcObjectClasses: ( 1.3.6.1.1.2.5 NAME 'oncRpc' DESC 'Abstraction of an ONC/RPC binding' SUP top STRUCTURAL MUST ( cn $ oncRpcNumber $ description ) MAY description )
olcObjectClasses: ( 1.3.6.1.1.2.6 NAME 'ipHost' DESC 'Abstraction of a host, an IP device' SUP top AUXILIARY MUST ( cn $ ipHostNumber ) MAY ( description $ manager )
olcObjectClasses: ( 1.3.6.1.1.2.7 NAME 'ipNetwork' DESC 'Abstraction of an IP network' SUP top STRUCTURAL MUST ( cn $ ipNetworkNumber ) MAY ( ipNetmask...
olcObjectClasses: ( 1.3.6.1.1.1.2.8 NAME 'nisNetgroup' DESC 'Abstraction of a netgroup' SUP top STRUCTURAL MUST cn MAY ( nisNetgroupTriple $ memberNisNetgroup $ manager ) )
olcObjectClasses: ( 1.3.6.1.1.1.2.9 NAME 'nisMap' DESC 'A generic abstraction of a NIS map' SUP top STRUCTURAL MUST nisMapName MAY description )
olcObjectClasses: ( 1.3.6.1.1.1.2.10 NAME 'nisObject' DESC 'An entry in a NIS map' SUP top STRUCTURAL MUST ( cn $ nisMapEntry $ nisMapName ) MAY description )
olcObjectClasses: ( 1.3.6.1.1.1.2.11 NAME 'ieee802Device' DESC 'A device with a MAC address' SUP top AUXILIARY MAY macAddress )
olcObjectClasses: ( 1.3.6.1.1.1.2.12 NAME 'bootableDevice' DESC 'A device with boot parameters' SUP top AUXILIARY MAY ( bootFile $ bootParameter ) )

Found in path(s):
* /opt/cola/permits/1235932556_1639572800.57/0/openldap-2-6-0-r0-targz/openldap-2.6.0-r0/etc/openldap/schema/nis.ldif

1.372 xdg-stringprep 1.0.0

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### 1.373 lua-cjson 2.1.0

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### 1.374 libqb 2.0.3-1

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1.376 go-autorest-adal 0.9.10

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1.377 debianutils 4.8.4

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1.385 define-properties 1.1.3

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1.388 ispell 3.4.00-6
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Ispell has a long and convoluted history. I have tried to track down as much as possible about it and condense it below.
THE DEVELOPMENT OF SPELL-CHECKING AND THE FIRST ISPELL

The following background information on spelling checkers in general, and ispell in particular, was provided to me by Les Earnest (les@dec-lite.stanford.edu):

> The earliest spelling checker (of sorts) of which I am aware was in a program that attempted to automatically receive human-keyed Morse code, which can be ambiguous because of the variable timing between dots, dashes, intercharacter pauses, and interword pauses. This program didn't use a full dictionary; instead, used a table of digraphs (two-letter sequences) that occur in English and barred improper letter sequences. This program was written by someone at MIT Lincoln Lab around 1959 and, I think, ran on the TX-2 computer there. Unfortunately, I don't remember his name. I might still have the paper he wrote in my files but it would take a major search to find it and I might not succeed.

> A program that I wrote in 1961 to read cursive writing contained a real spelling checker, using the 10,000 most common English words. It is reported in:
>
>
> I brought that dictionary to Stanford and got a PhD student to write a spelling checker for text in Lisp running on our PDP-6 computer at the Stanford Artificial Intelligence Lab around 1967. Unfortunately, I do not remember which student it was; it could have been Gil Falk. It was a rather simple program (certainly much simpler than the earlier cursive writing program) and I didn't think of it as a significant development at the time.

> [Later], I got another PhD student, Ralph Gorin, to do a better and faster spelling checker sometime in the early '70s, still using my old dictionary. Ralph later wrote an article about it in CACM. I believe that he later augmented the dictionary.

[note: Ralph has since informed me that he wrote no such article. The program was called SPELL and was written in 1971. Ralph provided me with a reference to "Computer Programs for Spelling Correction", by James L. Peterson, Springer-Verlag, Berlin, 1980, No. 96 in the series "Lecture Notes in Computer Science." This book states that Ralph's SPELL program, which was the direct ancestor of ispell, was the first computer program written for checking the spelling of text documents.]
The book is also a good source of references on spelling programs.

> ...

> [Ispell] was originally written in PDP-10 assembly language and ran
> under the WAITS operating system, which is similar to TOPS-10 but existed
> only on SAIL (a dual processor KA10/PDP-6 system). It was and is called
> SPELL on that machine. It later was modified to run under Tenex and
> TOPS-20.

[Ralph mentions that SPELL was also ported to MIT’s ITS and TOPS-10.]

The Tenex version of ispell was later revised by W. E. Matson (1974),
and Bill Ackerman (1978). Bill has provided the following information:

> I came across the SPELL program in 1978 on ITS. It was a port from
> Stanford, and had the names Ralph Gorin (approximately 1971) and
> Wayne Matson (1974) associated with it. I did 3 things to it:
> 
>    Rewrote it as a native program for ITS, and, shortly thereafter,
>    TOPS-20. (I never did anything for TOPS-10, and am not aware
>    that it ever ran on TOPS-10, though it may have.)
> 
>    Replaced the heuristics for suffix removal, which I found unreliable
>    and unsatisfactory, with an algorithm that was driven by specific
>    suffix flags in the dictionary. This way, the dictionary would have
>    complete control over what words were legal, and there would be no
>    spurious hits.
> 
>    Apparently most importantly, though I had no idea at time, gave it
>    the name "ISPELL", for "ITS version of spell", since I didn't
>    consider myself authorized to throw away an existing program
>    and overwrite it with a new one under the same name.
> 
> I have not followed the history of the program since then, and do not know
> if it still uses the "suffix flags" in its dictionary. But if it does,
> I introduced them. The Ispell algorithm that uses those flags to make
> accurate decisions about the legality of words was documented in great
> detail in James Peterson's Springer-Verlag book. (He spent a semester
> at MIT while working on the book, and I provided him with a lot of
> information and documentation at that time.)

> Bill Ackerman
> wba@apollo.hp.com

Michael Adler adds:

> I did work on ispell in 1982. Actually, I stole the ispell
dictionary and suffix compression algorithm and wrote a spelling
checker for CP/M in 8080 assembler that I very creatively called "SPELL."
By sorting the dictionary alphabetically and using a difference encoding
I managed to pack the entire dictionary that Bill was using in about
56Kb. The CP/M program read a document, sorted all the words alphabetically
and then checked them. It then reread the document and compared words as
it found them against the in memory, sorted and checked words. SPELL was
around in the public domain on CP/M.

I was in high school at the time and talked to Bill only over email.
We wound up in the same compiler group at Apollo in the late 80's by
coincidence.

DEVELOPMENT OF THE C/UNIX VERSION OF ISPELL

In 1983, Pace Willisson (pace@prep.ai.mit.edu) wrote a C/Unix version
from scratch, based on the ispell documentation.

In 1987, Walt Buehring revised and enhanced ispell, and posted it to the
Usenet along with a dictionary. In addition, Walt wrote the first version
of "ispell.el", the emacs interface.

Geoff Kuenning (geoff@ITcorp.com, that's me, and by the way I
pronounce it "Kenning"; the "u" is silent) picked up this version,
fixed some bugs, and added further enhancements, all of which made me
the de-facto ispell maintainer for the net. I also put quite a bit of
work into improving the quality of the dictionaries. In 1987 I began
work on the "munchlist" script, which I originally intended to be used
to add flags to personal dictionary entries. At the same time I was
studying German, and wanted to use ispell to check the papers I was
writing for that class. After thinking about it for some time, I
realized that the suffix flags could be table-driven, which would both
add flexibility and would get rid of certain difficult-to-find bugs.
In 1988 I rewrote major portions of the code to do this, resulting in
the first multi-lingual version. Ole Bjoern Hessen (obh@ifi.uio.no)
in Norway alpha-tested this version and provided several important
enhancements.

Bob Devine (vianet!devine) provided two larger dictionaries (which
became the basis for english.1 and english.2) to me for inclusion
with subsequent releases.

Ashwin Ram (ram@cs.yale.edu) made substantial enhancements to Walt
Buehring's emacs interface, and provided them to me for inclusion
with an earlier release.

The emacs interface was then completely overhauled by Ken Stevens
(stevens@hplabs.hp.com), who also beta-tested the software and
without whom this posting would not have been possible. If there's a
feature in the emacs interface that you like, you probably have Ken to
thank for it. His efforts have been tireless for many years.

Martin Boyer made major contributions to the munchlist script,
including producing a version that runs under perl (see
languages/Where for instructions on how to get that version).
Philippe-Andre Prindeville provided xspell (a Motif-based X
interface), and Moritz Willers provided a NeXTStep interface.

DEVELOPMENT AND DEATH OF ISPELL 4.0

Meanwhile, and unbeknownst to me, Pace Willisson was working on his
own improvements to ispell. He focused primarily on dictionary size
and startup time. His solution was a dictionary compression algorithm
that detected and encoded frequent letter pairs. This also reduced
the time needed to read it in. Pace also changed some internal data
structures to improve startup time. Pace and I eventually discovered
each other's efforts, and discussed re-merging our changes, but we
decided that there would be too much work involved. This was partly
because I was close to a release and didn't want to delay it with an
extensive and error-prone merge.

In late 1992 (if my memory serves correctly), Richard Stallman
contacted me, asking for permission to distribute ispell as part of
the GNU suite. I responded that he was welcome to distribute it, but
that I was not willing to place my software under the Gnu Public
License. Through a misunderstanding, neither of us considered the
possibility of finding a compromise license that both could live with.
So Richard started a search for an alternate version, and found Pace
working right in his back yard.

I have been told that when FSF first learned of Pace's version, they
again considered using International Ispell instead because it was
both more popular and more capable, but this idea was rejected due to
the license misunderstanding. Instead, FSF enhanced Pace's version
somewhat and called it ispell 4.0, apparently in the hopes that by
numbering the version higher, it would become the standard.

When ispell 4.0 was released, much confusion ensued. Many ispell
users innocently "upgraded" to 4.0 and then screamed when they could
not find features to which they had grown accustomed. Europeans in
general were angered by the apparent provincialism shown by the
"dropping" of international support. I found myself inundated with
questions about a version I had never heard of or seen.

One of the earliest and most common suggestions was that FSF should
rename their version "gispell". This had a lot of precedent, both in
the naming of other FSF utilities and in the then-recent change of the
suffix used by gzip from ".z" to ".gz". Unfortunately, the FSF
refused to do this. I may have inadvertently contributed to this
refusal with a Usenet posting in which I tried to clarify what had
happened, pointing out that the FSF version was more recently related
to Pace's than my own. This may have been seen as an acknowledgment
that FSF should have the rights to the name "ispell," and that I
should rename my version.

A flame war arose, and I decided that the only way to solve the
problem was to rename my version to eliminate the confusion. However,
at about the same time Richard Stallman and I began negotiating via
e-mail. We itemized and clarified his objections to my license, and I
learned from a third party that FSF is willing to distribute software
that falls under the University of California license (also known as
the Berkeley license). Richard and I agreed that if I changed my
license to be a paraphrase of the UC license, FSF would be willing to
distribute my version with no changes. Since then, ispell 4.0 has
been dropped by FSF and has pretty well disappeared from the net,
leaving International Ispell as the version of choice for nearly everyone.

OTHER CONTRIBUTORS

Numerous other people have contributed enhancements, suggestions, and
bug fixes. I used to attempt to keep track of all of them, and list
their names here. However, I found that keeping the list of names
correct was as time-consuming as fixing bugs, so I finally decided
that the list had grown too long, and stopped keeping it current.
This is unfortunate, because many people have made significant
contributions to ispell and I would like to have a way to acknowledge
them. So please remember that hundreds of people have helped in this
effort, and that I appreciate each and every one of them.

#ifndef LOCAL_H_INCLUDED
#define LOCAL_H_INCLUDED
/*
 * $Id: local.h.bsd,v 1.1 2005/04/27 00:17:46 geoff Exp $
 */

/*
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* 4. The code that causes the ’ispell -v’ command to display a prominent
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* SUCH DAMAGE.
*/

/*
* This file is a sample local.h file. It shows what I believe nearly every
* site will want to include in their local.h. You will probably want to
* expand this file; see "config.X" to learn of #defines that you might
* like to add to.
*/

/*
* WARNING WARNING WARNING
* This file is *NOT* a normal C header file! Although it uses C
* syntax and is included in C programs, it is also processed by shell
* scripts that are very stupid about format.
* Do not try to use #if constructs to configure this file for more
* than one configuration. Do not place whitespace after the "#" in
* "#define". Do not attempt to disable lines by commenting them out.
* Do not use backslashes to reduce the length of long lines.
* None of these things will work the way you expect them to.
* WARNING WARNING WARNING
*/
#define MINIMENU /* Display a mini-menu at the bottom of the screen */
#define GENERATE_LIBRARY_PROTOS
#define EGREPCMD "egrep -i"
#define HAS_RENAME

/*
 * Important directory paths. If you change MAN45DIR from man5 to
 * something else, you probably also want to set MAN45SECT and
 * MAN45EXT (but not if you keep the man pages in section 5 and just
 * store them in a different place).
 * /
#define BINDIR "/usr/local/bin"
#define LIBDIR "/usr/local/lib"
#define MAN1DIR " /usr/local/man/man1"
#define MAN45DIR "/usr/local/man/man5"
#define MAN45EXT ".5"

/*
 * Place any locally-required #include statements here
 */

#endif /* LOCAL_H_INCLUDED */

1.389 pycurl 7.43.0.2-0.1

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1.401 zlib 1.2.11.dfsg 0ubuntu2

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1.404 zlib 1.2.11

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

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1.405 rtmpdump 2.4+20151223.gitfa8646d.1- 
2+b2

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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
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
loss of link, and correctly re-enable PHY when link is
re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
details.
*
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*
* M. Welsh, 6 July 1996
*
*
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1.411 e2fsprogs 1.44.1 1ubuntu1.3
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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
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written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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Theodore Ts'o
23-June-2007

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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

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# This is 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) $(BSD_LIB) \n$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \n@-$((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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Appendix: How to Apply These Terms to Your New Programs

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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>

This program 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 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
Also add information on how to contact you by electronic and paper mail.

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

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

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**1.412 tdb 1.46.2**

**1.412.1 Available under license:**

Copyright (c) 2001-2002, SourceForge ISO-RELAX Project (ASAMI Tomoharu, Daisuke Okajima, Kohsuke Kawaguchi, and MURATA Makoto)

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1.413 go 1.14.5

1.413.1 Available under license:

# This is the official list of people who can contribute
# (and typically have contributed) code to the Go repository.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.

# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
#   http://code.google.com/legal/individual-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.

# 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.

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1.421 python-setuptools 56.0.0
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1.422 jwt 2.0.2

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1.423 com_signalfx_metrics_protobuf 0.0.2

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1.424 drf-nested-routers 0.93.4

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

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.430 rq 1.10.1

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1.431 libsemanage 3.1 1+b2

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1.437 @reduxjs/toolkit 1.6.2

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1.438 openssl 1.1.11

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1.447 pep517 0.11.0
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1.448 xmlsec 1.2.27-2

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* Cryptocom LTD

1.449 go-homedir 1.1.0
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1.450 colorama 0.4.4
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1.451 react-fusioncharts 3.1.2
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1.453 google-cloud-go 0.56.0

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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
            }
        }
    })
}
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1.454 aliyun-alibaba-cloud-sdk-go 1.61.1004
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package linkface

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//-->

// Code generated by Alibaba Cloud SDK Code Generator.
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// DataInQueryLicenses is a nested struct in linkface response
type DataInQueryLicenses struct {
    DataItem []DataItem `json:"DataItem" xml:"DataItem"
}

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package ocr

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// RecognizeDriverLicense invokes the ocr.RecognizeDriverLicense API synchronously
func (client *Client) RecognizeDriverLicense(request *RecognizeDriverLicenseRequest) (response
*RecognizeDriverLicenseResponse, err error) {
    response = CreateRecognizeDriverLicenseResponse()
    err = client.DoAction(request, response)
    return
}
// RecognizeDriverLicenseWithChan invokes the ocr.RecognizeDriverLicense API asynchronously
func (client *Client) RecognizeDriverLicenseWithChan(request *RecognizeDriverLicenseRequest) (<-chan *RecognizeDriverLicenseResponse, <-chan error) {
    responseChan := make(chan *RecognizeDriverLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.RecognizeDriverLicense(request)
        if err != nil {
            errChannel <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// RecognizeDriverLicenseWithCallback invokes the ocr.RecognizeDriverLicense API asynchronously
func (client *Client) RecognizeDriverLicenseWithCallback(request *RecognizeDriverLicenseRequest, callback func(response *RecognizeDriverLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *RecognizeDriverLicenseResponse
        var err error
        defer close(result)
        response, err = client.RecognizeDriverLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// RecognizeDriverLicenseRequest is the request struct for api RecognizeDriverLicense
type RecognizeDriverLicenseRequest struct {
    *requests.RpcRequest
    ImageType requests.Integer `position:"Body" name:"ImageType"`
    Side string `position:"Body" name:"Side""
// RecognizeDriverLicenseResponse is the response struct for api RecognizeDriverLicense type RecognizeDriverLicenseResponse struct {
   *responses.BaseResponse
   RequestId string `json:"RequestId" xml:"RequestId``
   Code       string `json:"Code" xml:"Code``
   Message    string `json:"Message" xml:"Message``
   Data       Data   `json:"Data" xml:"Data``
}

// CreateRecognizeDriverLicenseRequest creates a request to invoke RecognizeDriverLicense API func CreateRecognizeDriverLicenseRequest() (request *RecognizeDriverLicenseRequest) {
   request = &RecognizeDriverLicenseRequest{
      RpcRequest: &requests.RpcRequest{},
   }
   request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeDriverLicense", "ocr", "openAPI")
   request.Method = requests.POST
   return
}

// CreateRecognizeDriverLicenseResponse creates a response to parse from RecognizeDriverLicense response func CreateRecognizeDriverLicenseResponse() (response *RecognizeDriverLicenseResponse) {
   response = &RecognizeDriverLicenseResponse{
      BaseResponse: &responses.BaseResponse{},
   }
   return
}

package mts

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import (  
   "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
// GetLicense invokes the mts.GetLicense API synchronously
func (client *Client) GetLicense(request *GetLicenseRequest) (response *GetLicenseResponse, err error) {
    response = CreateGetLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// GetLicenseWithChan invokes the mts.GetLicense API asynchronously
func (client *Client) GetLicenseWithChan(request *GetLicenseRequest) (<-chan *GetLicenseResponse, <-chan error) {
    responseChan := make(chan *GetLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.GetLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// GetLicenseWithCallback invokes the mts.GetLicense API asynchronously
func (client *Client) GetLicenseWithCallback(request *GetLicenseRequest, callback func(response *GetLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *GetLicenseResponse
        var err error
        defer close(result)
        response, err = client.GetLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
    }
    return result
}
result = 0
}
return result
}

// GetLicenseRequest is the request struct for api GetLicense
type GetLicenseRequest struct {
  *requests.RpcRequest
  ResourceOwnerId    string `position:"Query" name:"ResourceOwnerId"
  Data               string `position:"Query" name:"Data"
  Type               string `position:"Query" name:"Type"
  ResourceOwnerAccount string `position:"Query" name:"ResourceOwnerAccount"
  OwnerAccount       string `position:"Query" name:"OwnerAccount"
  MediaId            string `position:"Query" name:"MediaId"
  Header             string `position:"Query" name:"Header"
  LicenseUrl         string `position:"Query" name:"LicenseUrl"
}

// GetLicenseResponse is the response struct for api GetLicense
type GetLicenseResponse struct {
  *responses.BaseResponse
  RequestId string `json:"RequestId" xml:"RequestId"
  License   string `json:"License" xml:"License"
}

// CreateGetLicenseRequest creates a request to invoke GetLicense API
func CreateGetLicenseRequest() (request *GetLicenseRequest) {
  request = &GetLicenseRequest{
    RpcRequest: &requests.RpcRequest{},
  }
  request.InitWithApiInfo("Mts", "2014-06-18", "GetLicense", "mts", "openAPI")
  request.Method = requests.POST
  return
}

// CreateGetLicenseResponse creates a response to parse from GetLicense response
func CreateGetLicenseResponse() (response *GetLicenseResponse) {
  response = &GetLicenseResponse{
    BaseResponse: &responses.BaseResponse{},
  }
  return
}

package market

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import {
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
}

// ActivateLicense invokes the market.ActivateLicense API synchronously
func (client *Client) ActivateLicense(request *ActivateLicenseRequest) (response *ActivateLicenseResponse, err error) {
    response = CreateActivateLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// ActivateLicenseWithChan invokes the market.ActivateLicense API asynchronously
func (client *Client) ActivateLicenseWithChan(request *ActivateLicenseRequest) (<-chan *ActivateLicenseResponse, <-chan error) {
    responseChan := make(chan *ActivateLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.ActivateLicense(request)
        if err != nil {
            errChan <- err
            close(errChan)
            return
        } else {
            responseChan <- response
        }
    })
    err := client.WaitAsyncTaskSuccess(errChan)
    if err != nil { // err == nil if done normally
        errChan <- err
        close(errChan)
        return
    }
    return responseChan, errChan
}
func (client *Client) ActivateLicenseWithCallback(request *ActivateLicenseRequest, callback func(response *ActivateLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *ActivateLicenseResponse
        var err error
        defer close(result)
        response, err = client.ActivateLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// ActivateLicenseRequest is the request struct for api ActivateLicense
type ActivateLicenseRequest struct {
    *requests.RpcRequest
    Identification string `position:"Query" name:"Identification"`
    LicenseCode    string `position:"Query" name:"LicenseCode"`
}

// ActivateLicenseResponse is the response struct for api ActivateLicense
type ActivateLicenseResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"`
    Success   bool   `json:"Success" xml:"Success"`
}

// CreateActivateLicenseRequest creates a request to invoke ActivateLicense API
func CreateActivateLicenseRequest() (request *ActivateLicenseRequest) {
    request = &ActivateLicenseRequest{
        RpcRequest: &requests.RpcRequest{
            RequestId: "",
        },
    }
    request.InitWithApiInfo("Market", "2015-11-01", "ActivateLicense", "yunmarket", "openAPI")
    return
}
// CreateActivateLicenseResponse creates a response to parse from ActivateLicense response
func CreateActivateLicenseResponse() (response *ActivateLicenseResponse) {
    response = &ActivateLicenseResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}

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    apic.go
    emitterc.go
    parserc.go
    readerc.go
    scannerc.go
    writerc.go
    yamlh.go
    yamlprivateh.go

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 Package ocr

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 Import ( 
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
 )

 // RecognizeLicensePlate invokes the ocr.RecognizeLicensePlate API synchronously
 func (client *Client) RecognizeLicensePlate(request *RecognizeLicensePlateRequest) (response *RecognizeLicensePlateResponse, err error) {
  response = CreateRecognizeLicensePlateResponse()
  err = client.DoAction(request, response)
  return
 }

 // RecognizeLicensePlateWithChan invokes the ocr.RecognizeLicensePlate API asynchronously
 func (client *Client) RecognizeLicensePlateWithChan(request *RecognizeLicensePlateRequest) (<-chan *RecognizeLicensePlateResponse, <-chan error) {
  responseChan := make(chan *RecognizeLicensePlateResponse, 1)
  errChan := make(chan error, 1)
  defer close(responseChan)
  defer close(errChan)
  err := client.AddAsyncTask(func() {
   defer close(responseChan)
   defer close(errChan)
   response, err := client.RecognizeLicensePlate(request)
   if err != nil {
    errChan <- err
   } else {
    responseChan <- response
   }
  })
  return responseChan, errChan
}
if err != nil {
    errChan <- err
    close(responseChan)
    close(errChan)
}
return responseChan, errChan

// RecognizeLicensePlateWithCallback invokes the ocr.RecognizeLicensePlate API asynchronously
func (client *Client) RecognizeLicensePlateWithCallback(request *RecognizeLicensePlateRequest, callback func(response *RecognizeLicensePlateResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *RecognizeLicensePlateResponse
        var err error
        defer close(result)
        response, err = client.RecognizeLicensePlate(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// RecognizeLicensePlateRequest is the request struct for api RecognizeLicensePlate
type RecognizeLicensePlateRequest struct {
    *requests.RpcRequest
    ImageType requests.Integer `position:"Body" name:"ImageType"
    ImageURL string `position:"Body" name:"ImageURL"
}

// RecognizeLicensePlateResponse is the response struct for api RecognizeLicensePlate
type RecognizeLicensePlateResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"
    Code string `json:"Code" xml:"Code"
    Message string `json:"Message" xml:"Message"
    Data Data `json:"Data" xml:"Data"
}

// CreateRecognizeLicensePlateRequest creates a request to invoke RecognizeLicensePlate API
func CreateRecognizeLicensePlateRequest() (request *RecognizeLicensePlateRequest) {
    request = &RecognizeLicensePlateRequest{
        RpcRequest: &requests.RpcRequest{},
    }
}
request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeLicensePlate", "ocr", "openAPI")
request.Method = requests.POST
return

// CreateRecognizeLicensePlateResponse creates a response to parse from RecognizeLicensePlate response
func CreateRecognizeLicensePlateResponse() (response *RecognizeLicensePlateResponse) {
    response = &RecognizeLicensePlateResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}

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// PositionsInRecognizeLicensePlate is a nested struct in ocr response
type PositionsInRecognizeLicensePlate struct {
    Positions []Positions `json:"positions" xml:"positions"
}

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// RecognizeBusinessLicense invokes the ocr.RecognizeBusinessLicense API synchronously
func (client *Client) RecognizeBusinessLicense(request *RecognizeBusinessLicenseRequest) (response
*RecognizeBusinessLicenseResponse, err error) {
    response = CreateRecognizeBusinessLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// RecognizeBusinessLicenseWithChan invokes the ocr.RecognizeBusinessLicense API asynchronously
func (client *Client) RecognizeBusinessLicenseWithChan(request *RecognizeBusinessLicenseRequest) (<-chan
*RecognizeBusinessLicenseResponse, <-chan error) {
    responseChan := make(chan *RecognizeBusinessLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.RecognizeBusinessLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    return responseChan, errChan
}
func (client *Client) RecognizeBusinessLicenseWithCallback(request *RecognizeBusinessLicenseRequest, callback func(response *RecognizeBusinessLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *RecognizeBusinessLicenseResponse
        var err error
        defer close(result)
        response, err = client.RecognizeBusinessLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

func CreateRecognizeBusinessLicenseRequest() (request *RecognizeBusinessLicenseRequest) {
    request = &RecognizeBusinessLicenseRequest{
        *requests.RpcRequest
        ImageType: requests.Integer("ImageType"),
        ImageURL: string("ImageURL"),
    }

    return request
}
package linkface

import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// QueryLicenses invokes the linkface.QueryLicenses API synchronously
func (client *Client) QueryLicenses(request *QueryLicensesRequest) (response *QueryLicensesResponse, err error) {
    response = CreateQueryLicensesResponse()
    err = client.DoAction(request, response)
    return
}

// QueryLicensesWithChan invokes the linkface.QueryLicenses API asynchronously
func (client *Client) QueryLicensesWithChan(request *QueryLicensesRequest) (<-chan *QueryLicensesResponse, <-chan error) {
    responseChan := make(chan *QueryLicensesResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.QueryLicenses(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

func (client *Client) QueryLicensesWithCallback(request *QueryLicensesRequest, callback func(response *QueryLicensesResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *QueryLicensesResponse
        var err error
        defer close(result)
        response, err = client.QueryLicenses(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

func (client *Client) QueryLicenses(request *QueryLicensesRequest) (*QueryLicensesResponse, error) {
    response, err := client.QueryLicenses(request)
    return response, err
}

// QueryLicensesRequest is the request struct for api QueryLicenses
type QueryLicensesRequest struct {
    *requests.RpcRequest
}
LicenseType requests.Integer `position:"Body" name:"LicenseType"`
PageSize requests.Integer `position:"Body" name:"PageSize"`
CurrentPage requests.Integer `position:"Body" name:"CurrentPage"`;
}

// QueryLicensesResponse is the response struct for api QueryLicenses
type QueryLicensesResponse struct {
*responses.BaseResponse
RequestId string `json:"RequestId" xml:"RequestId"
Code int `json:"Code" xml:"Code"
Message string `json:"Message" xml:"Message"
PageSize int `json:"PageSize" xml:"PageSize"
PageCount int `json:"PageCount" xml:"PageCount"
Page int `json:"Page" xml:"Page"
Total int `json:"Total" xml:"Total"
Success bool `json:"Success" xml:"Success"
Data []DataItem `json:"Data" xml:"Data"
}

// CreateQueryLicensesRequest creates a request to invoke QueryLicenses API
func CreateQueryLicensesRequest() (request *QueryLicensesRequest) {
request = &QueryLicensesRequest{
RpcRequest: &requests.RpcRequest{},
}
request.InitWithApiInfo("LinkFace", "2018-07-20", "QueryLicenses", ",", ")
return
}

// CreateQueryLicensesResponse creates a response to parse from QueryLicenses response
func CreateQueryLicensesResponse() (response *QueryLicensesResponse) {
response = &QueryLicensesResponse{
BaseResponse: &responses.BaseResponse{},
}
return
}

package imm

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import {
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
}

// GetDRMLicense invokes the imm.GetDRMLicense API synchronously
func (client *Client) GetDRMLicense(request *GetDRMLicenseRequest) (response *GetDRMLicenseResponse, err error) {
    response = CreateGetDRMLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// GetDRMLicenseWithChan invokes the imm.GetDRMLicense API asynchronously
func (client *Client) GetDRMLicenseWithChan(request *GetDRMLicenseRequest) (<-chan *GetDRMLicenseResponse, <-chan error) {
    responseChan := make(chan *GetDRMLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.GetDRMLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
    }
    return responseChan, errChan
}

// GetDRMLicenseWithCallback invokes the imm.GetDRMLicense API asynchronously
func (client *Client) GetDRMLicenseWithCallback(request *GetDRMLicenseRequest, callback func(response *GetDRMLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        defer close(result)
        var response *GetDRMLicenseResponse
        var err error
        response, err = client.GetDRMLicense(request)
        if err != nil {
            result <- err
        } else {
            result <- response
        }
    })
    return result
}
response, err = client.GetDRMLicense(request)
callback(response, err)
result <- 1
}
if err != nil {
    defer close(result)
callback(nil, err)
result <- 0
}
return result

// GetDRMLicenseRequest is the request struct for api GetDRMLicense
type GetDRMLicenseRequest struct {
    *requests.RpcRequest
    Project    string `position:"Query" name:"Project"
    DRMType    string `position:"Query" name:"DRMType"
    DRMLicense string `position:"Query" name:"DRMLicense"
}

// GetDRMLicenseResponse is the response struct for api GetDRMLicense
type GetDRMLicenseResponse struct {
    *responses.BaseResponse
    RequestId  string `json:"RequestId" xml:"RequestId"
    DeviceInfo string `json:"DeviceInfo" xml:"DeviceInfo"
    DRMDData    string `json:"DRMDData" xml:"DRMDData"
}

// CreateGetDRMLicenseRequest creates a request to invoke GetDRMLicense API
func CreateGetDRMLicenseRequest() (request *GetDRMLicenseRequest) {
    request = &GetDRMLicenseRequest{
        RpcRequest: &requests.RpcRequest{},
        }
    request.InitWithApiInfo("imm", "2017-09-06", "GetDRMLicense", "imm", "openAPI")
    request.Method = requests.POST
    return
}

// CreateGetDRMLicenseResponse creates a response to parse from GetDRMLicense response
func CreateGetDRMLicenseResponse() (response *GetDRMLicenseResponse) {
    response = &GetDRMLicenseResponse{
        BaseResponse: &responses.BaseResponse{},
        }
    return
}

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package market

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// Changes may cause incorrect behavior and will be lost if the code is regenerated.

// License is a nested struct in market response
type License struct {
    LicenseStatus string `json:"LicenseStatus" xml:"LicenseStatus"
    LicenseCode   string `json:"LicenseCode" xml:"LicenseCode"
    InstanceId    string `json:"InstanceId" xml:"InstanceId"
    CreateTime    string `json:"CreateTime" xml:"CreateTime"
    ExpiredTime   string `json:"ExpiredTime" xml:"ExpiredTime"
    ActivateTime  string `json:"ActivateTime" xml:"ActivateTime"
    ProductSkuId  string `json:"ProductSkuId" xml:"ProductSkuId"
    ProductCode   string `json:"ProductCode" xml:"ProductCode"
    ProductName   string `json:"ProductName" xml:"ProductName"
    SupplierName  string `json:"SupplierName" xml:"SupplierName"
    ExtendInfo    ExtendInfo `json:"ExtendInfo" xml:"ExtendInfo"
    ExtendArray   ExtendArray `json:"ExtendArray" xml:"ExtendArray"
}

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// DescribeLicense invokes the market.DescribeLicense API synchronously
func (client *Client) DescribeLicense(request *DescribeLicenseRequest) (response *DescribeLicenseResponse, err error) {
    response = CreateDescribeLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// DescribeLicenseWithChan invokes the market.DescribeLicense API asynchronously
func (client *Client) DescribeLicenseWithChan(request *DescribeLicenseRequest) (<-chan *DescribeLicenseResponse, <-chan error) {
    responseChan := make(chan *DescribeLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.DescribeLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// DescribeLicenseWithCallback invokes the market.DescribeLicense API asynchronously
func (client *Client) DescribeLicenseWithCallback(request *DescribeLicenseRequest, callback func(response *DescribeLicenseResponse, err error)) <- chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *DescribeLicenseResponse
        var err error
        defer close(result)
        response, err = client.DescribeLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// DescribeLicenseRequest is the request struct for api DescribeLicense
type DescribeLicenseRequest struct {
    *requests.RpcRequest
    LicenseCode string `position:"Query" name:"LicenseCode"`
}

// DescribeLicenseResponse is the response struct for api DescribeLicense
type DescribeLicenseResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"`
    License License `json:"License" xml:"License"`
}

// CreateDescribeLicenseRequest creates a request to invoke DescribeLicense API
func CreateDescribeLicenseRequest() (request *DescribeLicenseRequest) {
    request = &DescribeLicenseRequest{
        RpcRequest: &requests.RpcRequest{},
    }
    request.InitWithApiInfo("Market", "2015-11-01", "DescribeLicense", "yunmarket", "openAPI")
    return
}

// CreateDescribeLicenseResponse creates a response to parse from DescribeLicense response
func CreateDescribeLicenseResponse() (response *DescribeLicenseResponse) {
    response = &DescribeLicenseResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}
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// LicenseAttribute is a nested struct in market response
type LicenseAttribute struct {
    Code  string `json:"Code" xml:"Code"`
    Value string `json:"Value" xml:"Value"`
}

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package linkwan

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import (  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// GetUserLicense invokes the linkwan.GetUserLicense API synchronously  
func (client *Client) GetUserLicense(request *GetUserLicenseRequest) (response *GetUserLicenseResponse, err error) {  
    response = CreateGetUserLicenseResponse()  
    err = client.DoAction(request, response)  
    return  
}

// GetUserLicenseWithChan invokes the linkwan.GetUserLicense API asynchronously  
func (client *Client) GetUserLicenseWithChan(request *GetUserLicenseRequest) (<-chan *GetUserLicenseResponse, <-chan error) {  
    responseChan := make(chan *GetUserLicenseResponse, 1)  
    errChan := make(chan error, 1)  
    err := client.AddAsyncTask(func() {  
        defer close(responseChan)  
        defer close(errChan)  
        response, err := client.GetUserLicense(request)  
        if err != nil {  
            errChan <- err  
        } else {  
            responseChan <- response  
        }  
    })  
    if err != nil {  
        errChan <- err  
        close(responseChan)  
        close(errChan)  
    }  
    return responseChan, errChan  
}

// GetUserLicenseWithCallback invokes the linkwan.GetUserLicense API asynchronously  
func (client *Client) GetUserLicenseWithCallback(request *GetUserLicenseRequest, callback func(response *GetUserLicenseResponse, err error)) <-chan int {  
    result := make(chan int, 1)  
    err := client.AddAsyncTask(func() {  
        var response *GetUserLicenseResponse  
        var err error  
        result <- true  
    })  
    return result  
}
defer close(result)
response, err = client.GetUserLicense(request)
callback(response, err)
result <- 1
)
if err != nil {
defer close(result)
callback(nil, err)
result <- 0
}
return result
}

// GetUserLicenseRequest is the request struct for api GetUserLicense
type GetUserLicenseRequest struct {
  *requests.RpcRequest
  ApiProduct string `position:"Body" name:"ApiProduct"
  ApiRevision string `position:"Body" name:"ApiRevision"
}

// GetUserLicenseResponse is the response struct for api GetUserLicense
type GetUserLicenseResponse struct {
  *responses.BaseResponse
  Success bool `json:"Success" xml:"Success"
  RequestId string `json:"RequestId" xml:"RequestId"
  Data Data `json:"Data" xml:"Data"
}

// CreateGetUserLicenseRequest creates a request to invoke GetUserLicense API
func CreateGetUserLicenseRequest() (request *GetUserLicenseRequest) {
  request = &GetUserLicenseRequest{
    RpcRequest: &requests.RpcRequest{},
  }
  request.InitWithApiInfo("LinkWAN", "2019-03-01", "GetUserLicense", "linkwan", "openAPI")
  request.Method = requests.POST
  return
}

// CreateGetUserLicenseResponse creates a response to parse from GetUserLicense response
func CreateGetUserLicenseResponse() (response *GetUserLicenseResponse) {
  response = &GetUserLicenseResponse{
    BaseResponse: &responses.BaseResponse{},
  }
  return
}
package arms

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import {
  "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
  "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
}

// DescribeTraceLicenseKey invokes the arms.DescribeTraceLicenseKey API synchronously
func (client *Client) DescribeTraceLicenseKey(request *DescribeTraceLicenseKeyRequest) (response *DescribeTraceLicenseKeyResponse, err error) {
  response = CreateDescribeTraceLicenseKeyResponse()
  err = client.DoAction(request, response)
  return
}

// DescribeTraceLicenseKeyWithChan invokes the arms.DescribeTraceLicenseKey API asynchronously
func (client *Client) DescribeTraceLicenseKeyWithChan(request *DescribeTraceLicenseKeyRequest) (responseChan <-chan *DescribeTraceLicenseKeyResponse, errChan <-chan error) {
  responseChan := make(chan *DescribeTraceLicenseKeyResponse, 1)
  errChan := make(chan error, 1)
  err := client.AddAsyncTask(func() {
    defer close(responseChan)
    defer close(errChan)
    response, err := client.DescribeTraceLicenseKey(request)
    if err != nil {
      errChan <- err
    } else {
      responseChan <- response
    }
  })
  if err != nil {
    errChan <- err
    close(responseChan)
    close(errChan)
  }
  return responseChan, errChan
// DescribeTraceLicenseKeyWithCallback invokes the arms.DescribeTraceLicenseKey API asynchronously
func (client *Client) DescribeTraceLicenseKeyWithCallback(request *DescribeTraceLicenseKeyRequest, callback
func(response *DescribeTraceLicenseKeyResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *DescribeTraceLicenseKeyResponse
        var err error
        defer close(result)
        response, err = client.DescribeTraceLicenseKey(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// DescribeTraceLicenseKeyRequest is the request struct for api DescribeTraceLicenseKey
type DescribeTraceLicenseKeyRequest struct {
    *requests.RpcRequest
}

// DescribeTraceLicenseKeyResponse is the response struct for api DescribeTraceLicenseKey
type DescribeTraceLicenseKeyResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"
    LicenseKey string `json:"LicenseKey" xml:"LicenseKey"
}

// CreateDescribeTraceLicenseKeyRequest creates a request to invoke DescribeTraceLicenseKey API
func CreateDescribeTraceLicenseKeyRequest() (request *DescribeTraceLicenseKeyRequest) {
    request = &DescribeTraceLicenseKeyRequest{
        RpcRequest: &requests.RpcRequest{},
    }
    request.InitWithApiInfo("ARMS", "2019-08-08", " DescribeTraceLicenseKey", " arms", "openAPI")
    return
}

// CreateDescribeTraceLicenseKeyResponse creates a response to parse from DescribeTraceLicenseKey response
func CreateDescribeTraceLicenseKeyResponse() (response *DescribeTraceLicenseKeyResponse) {
    response = &DescribeTraceLicenseKeyResponse{
        BaseResponse: &responses.BaseResponse{},
    }
}
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    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
}

// RecognizeDrivingLicense invokes the ocr.RecognizeDrivingLicense API synchronously
func (client *Client) RecognizeDrivingLicense(request *RecognizeDrivingLicenseRequest) (response
*RecognizeDrivingLicenseResponse, err error) {
    response = CreateRecognizeDrivingLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// RecognizeDrivingLicenseWithChan invokes the ocr.RecognizeDrivingLicense API asynchronously
func (client *Client) RecognizeDrivingLicenseWithChan(request *RecognizeDrivingLicenseRequest) (<-chan
*RecognizeDrivingLicenseResponse, <-chan error) {
    responseChan := make(chan *RecognizeDrivingLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.RecognizeDrivingLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// RecognizeDrivingLicenseWithCallback invokes the ocr.RecognizeDrivingLicense API asynchronously
func (client *Client) RecognizeDrivingLicenseWithCallback(request *RecognizeDrivingLicenseRequest, callback
func(response *RecognizeDrivingLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *RecognizeDrivingLicenseResponse
        var err error
        defer close(result)
        response, err = client.RecognizeDrivingLicense(request)
        callback(response, err)
        result <- 0
    })
    return result
}
result <- 1
})
if err != nil {
defer close(result)
callback(nil, err)
result <- 0
}
return result
}

// RecognizeDrivingLicenseRequest is the request struct for api RecognizeDrivingLicense
type RecognizeDrivingLicenseRequest struct {
  *requests.RpcRequest
  ImageType requests.Integer `position:"Body" name:"ImageType"`
  Side  string    `position:"Body" name:"Side"
  ImageURL string `position:"Body" name:"ImageURL"
}

// RecognizeDrivingLicenseResponse is the response struct for api RecognizeDrivingLicense
type RecognizeDrivingLicenseResponse struct {
  *responses.BaseResponse
  RequestId string `json:"RequestId" xml:"RequestId"
  Data      Data  `json:"Data" xml:"Data"
}

// CreateRecognizeDrivingLicenseRequest creates a request to invoke RecognizeDrivingLicense API
func CreateRecognizeDrivingLicenseRequest() (request *RecognizeDrivingLicenseRequest) {
  request = &RecognizeDrivingLicenseRequest{
    RpcRequest: &requests.RpcRequest{},
  }
  request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeDrivingLicense", "ocr", "openAPI")
  request.Method = requests.POST
  return
}

// CreateRecognizeDrivingLicenseResponse creates a response to parse from RecognizeDrivingLicense response
func CreateRecognizeDrivingLicenseResponse() (response *RecognizeDrivingLicenseResponse) {
  response = &RecognizeDrivingLicenseResponse{
    BaseResponse: &responses.BaseResponse{},
  }
  return
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.469 go-ping-ping 0.0.0-20210201095549-52eed920f98c

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1.470 python 3.9.2-3

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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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1.473 docker-cli 20.10.12+incompatible

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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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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

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1.484 make 4.2.1 1.2

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The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
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The “System Libraries” of an executable work include anything, other
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implementation is available to the public in source code form. A
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(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

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work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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

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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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1.489 brotli 1.0.9-2+b2

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1.496 sanitized-anchor-name 1.0.0

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1.497 containerd-continuity 0.2.2

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1.507 libfile-fcntllock-perl 0.22 3+b5

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/ext2fs/

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.510 runc 1.0.2

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1.531 harlow-kinesis-consumer 0.3.1-0.20181230152818-2f58b136fee0

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1.534 golang-genproto 0.0.0-20211208223120-3a66f561d7aa

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1.535 openssl 1.1.1-1ubuntu2.1~18.04.17

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    <signature of Ty Coon>, 1 April 1989
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===========================
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===========================

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.. admonition:: Get up and running!
   
   If you are new to contributing to Django, the :doc:`/intro/contributing` tutorial will give you an introduction to the tools and the workflow.

This page contains more general advice on ways you can contribute to Django, and how to approach that.

If you are looking for a reference on the details of making code contributions,
First steps
============

Start with these steps to discover Django's development process.

* **Triage tickets**

  If an `unreviewed ticket` reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

  Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

  Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

* **Write some documentation**

  Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

  The `reports page` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

  .. reports page: https://code.djangoproject.com/wiki/Reports
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Guidelines
==========

As a newcomer on a large project, it’s easy to experience frustration. Here’s some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don’t already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets’ context and history**

Trac isn’t an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn’t necessarily mean that the idea will still have support. You also need to pay attention to who *hasn’t* spoken -- for example, if an experienced contributor hasn’t been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

It’s easier to get feedback on a little issue than on a big one. See the `easy pickings`_.

* **If you’re going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there’s consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**
Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous**

When we say "`.pep: 8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

* **Be patient**

It's not always easy for your ticket or your patch to be reviewed quickly. This isn't personal. There are a lot of tickets and pull requests to get through.

Keeping your patch up to date is important. Review the ticket on Trac to ensure that the *Needs tests*, *Needs documentation*, and *Patch needs improvement* flags are unchecked once you've addressed all review comments.

Remember that Django has an 8 month release cycle, so there's plenty of time for your patch to be reviewed.

Finally, a well-timed reminder can help. See :ref:`contributing code FAQ <new-contributors-faq>` for ideas here.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

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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.

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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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.561 djangorestframework 3.13.1

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1.563 @reduxjs/toolkit 1.5.0

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#
# Please keep the list sorted.

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1.584 python-requests 2.26.0

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1.588 libusb 0.1.12-32

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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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1.606 Isb 10.2019051400

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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: LSB implementation package

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

***

import io, sys
from setuptools import setup

def main():

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

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

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
```
'License :: OSI Approved :: BSD License',
'Operating System :: OS Independent',
'Programming Language :: Python',
'Programming Language :: Python :: 2',
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'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',
'Topic :: Utilities',
]
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1184181836_1628533468.66/0/python3-idna-2.10-1.el7.src.rpm-cosi-expand-archive-
  LIRZpof9/idna-2.10.tar.gz-cosi-expand-archive-joElbTwQ/idna-2.10/setup.py
No license file was found, but licenses were detected in source scan.

License:      BSD and Python and Unicode

Found in path(s):
* /opt/cola/permits/1184181836_1628533468.66/0/python3-idna-2.10-1.el7.src.rpm-cosi-expand-archive-
  LIRZpof9/python3-idna.spec
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.2
Name: idna
Version: 2.10
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 old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode('.')
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
    .
    
    # Python 2
    >>> import idna
    >>> idna.encode(u'.')
    'xn--eckwd4c7c.xn--zckzah'
    >>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
    .

Packages
--------

The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna

Installation
------------

To install this library, you can use pip:

.. code-block:: bash

    $ pip install idna
Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

    $ python setup.py install

This library works with Python 2.7 and Python 3.4 or later.

Usage
-----

For typical usage, the `encode` and `decode` functions will take a domain
name argument and perform a conversion to A-labels or U-labels respectively.

.. 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 `ulabel` or `alabel`
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.

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Function calls from the Python built-in `encodings.idna` module are mapped to their IDNA 2008 equivalents using the `idna.compat` module. Simply substitute the `import` clause in your code to refer to the new module name.

Exceptions
-----------

All errors raised during the conversion following the specification should raise an exception derived from the `idna.IDNAError` base class.

More specific exceptions that may be generated as `idna.IDNABidiError` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; `idna.InvalidCodepoint` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics
------------------------

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <http://iana.org/>.

* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.
Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing
-------

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: 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 :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Utilities
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

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1.608 arptables 1.8.2

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iconv (Charset Conversion Library) v2.0

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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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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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1.611 google-uuid 1.3.0

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1.615 go-pubsub 1.2.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (  
"context"  
  "compute"
)

func ExampleNewLicensesRESTClient() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
  // TODO: Handle error.
func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    resp, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {

}
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
resp, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_List() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{

// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
//
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_SetIamPolicy() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  req := &computepb.SetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
  resp, err := c.SetIamPolicy(ctx, req)
  if err != nil {
    // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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package compute_test

import (
    "context"
    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
def c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {  
  Delete []gax.CallOption  
  Get []gax.CallOption  
  GetIamPolicy []gax.CallOption  
  Insert []gax.CallOption  
  List []gax.CallOption  
  SetIamPolicy []gax.CallOption  
  TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {  
  Close() error  
  setGoogleClientInfo(...string)  
  Connection() *grpc.ClientConn  
  Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)  
  Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)  
  GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)  
  Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)  
  List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator  
  SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)  
  TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestIamPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.  
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.  
//  
// The Licenses API.  
type LicensesClient struct {
  // The internal transport-dependent client.  
  internalClient internalLicensesClient  
}
// The call options for this service.
CallOptions *LicensesCallOptions

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.

// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licensesRESTClient{
        endpoint:  endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}, nil}
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/")
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append(\[\]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// // Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}
// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    params := url.Values{
    }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Operation{
    }

    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    op := &Operation{proto: rsp}
return op, err

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.License{

    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return rsp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.IamPolicy, error) {
    ...
opts ...gax.CallOption) (*computeo.Policy, error) {
baseUrl, _ := url.Parse(c.endpoint)
req.GetResource())

params := url.Values{
}
if req != nil && req.OptionsRequestedPolicyVersion != nil {
}
baseUrl.RawQuery = params.Encode()

if err != nil {
return nil, err
}

httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return nil, err
}

defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computeo.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
return nil, maybeUnknownEnum(err)
}
return rsp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.

```go
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()
    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Operation{}
    return rsp, err
}
```
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{
        req = proto.Clone(req).(*computepb.ListLicensesRequest)
        unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
        it.InternalFetch = func(pageSize int, pageToken string) ([], *computepb.LicenseListResponse) {
            resp := &computepb.LicenseListResponse
            if pageToken != "" {
                req.PageToken = proto.String(pageToken)
            } else if pageSize > math.MaxInt32 {
                req.MaxResults = proto.Uint32(math.MaxInt32)
            } else if pageSize != 0 {
                req.MaxResults = proto.Uint32(uint32(pageSize))
            }
            baseUrl, _ := url.Parse(c.endpoint)

            params := url.Values{
                if req != nil && req.Filter != nil {
                } else if req != nil && req.MaxResults != nil {
                    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
                } else if req != nil && req.OrderBy != nil {
                    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
                } else if req != nil && req.PageToken != nil {
                } else if req != nil && req.ReturnPartialSuccess != nil {
                }
            }
            it.InternalFetch(pageSize, pageToken)
        }
    }
    return it
}
baseUrl.RawQuery = params.Encode()

if err != nil {
    return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, "", err
}
def err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
 opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 req.GetResource())

 if err != nil {
 return nil, err
 }
 httpReq = httpReqWithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.Policy{
}

 if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
 }
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
  m := protojson.MarshalOptions{AllowPartial: true}
  body := req.GetTestPermissionsRequestResource()
  jsonReq, err := m.Marshal(body)
  if err != nil {
    return nil, err
  }
  baseUrl, _ := url.Parse(c.endpoint)
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

  if err != nil {
    return nil, err
  }
  httpReq = httpReq.WithContext(ctx)
  // Set the headers
  for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
  }
  httpReq.Header["Content-Type"] = []string{"application/json"}

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    return nil, err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
    return nil, err
  }

  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  rsp := &computepb.TestPermissionsResponse{ }

  return rsp, nil
}
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
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Version 2.0, January 2004
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END OF TERMS AND CONDITIONS

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

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

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
comppb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get          []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licenseCodesRESTClient{
endpoint: endpoint,
httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{ }, nil }
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com"),
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...) 
kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
return nil
}

// Connection returns a connection to the API service.
// // Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
baseUrl, _ := url.Parse(c.endpoint)

req.GetLicenseCode()

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
    *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource() 
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions", 
req.GetProject(), req.GetResource())

if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{
    
    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return rsp, nil
}

1.616 pcre 8.39-9

1.616.1 Available under license:

PCRE LICENCE
------------

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

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The basic library functions 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.

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Text::Iconv Version 1.6

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Description
-----------

This module provides a Perl interface to the iconv() codeset conversion function, as defined by the Single UNIX Specification. For more details see the POD documentation embedded in the file Iconv.pm, which will also be installed as Text::Iconv(3) man page.

Prerequisites
-------------

Your system should be compliant with the Single UNIX Specification or at least provide iconv_open(), iconv() and iconv_close() functions compliant with it.

Note that the possible conversions and the quality of the conversions depend on the available iconv conversion tables and algorithms, which are in most cases supplied by the operating system vendor. Some systems also allow you to build your own tables (e.g., HP-UX, Tru64 UNIX, and AIX provide the genxlt(1) command).

It is also possible to use a separate iconv library such as GNU libiconv package, just make sure that the desired library is found (see <http://www.gnu.org/directory/localization/libiconv.html>).

Building the module
-------------------

Since the Single UNIX Specification only specifies an interface, several issues are left to the implementation to define, namely:

1. The supported codesets
2. The supported conversions
3. The names for the supported codesets

Please check your system documentation for the above points.

The module can be built using this sequence of commands:

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

On some systems, the iconv functions are in libc; on others (and when you want to use a separate iconv library, such as GNU libiconv), you have to link with -liconv. Makefile.PL tries to automatically detect this. However, if your iconv library is in a non-standard path, you might have to help it. You can specify library and include paths like this:

```
perl Makefile.PL LIBS='-L/path/to/lib' INC='-I/path/to/include
```

You might also have to do this if you have multiple iconv implementations installed and want to use a specific one.

The purpose of the test scripts (run by "make test") is to check if an iconv library can be found, and if the iconv functions can be called. It is neither intended to find out which conversions are supported, nor to test the quality of the conversions provided by your iconv library. However, since the iconv functions can only be tested by calling them, which in turn requires the specification of codesets to be converted. The test scripts try some conversions which seem to be widely supported. Conversions not supported by your iconv implementation are skipped, but for the purpose outlined above this is no problem, as it shows that the iconv functions are working. There is no standard way to find out which conversions are supported by an implementation. This is also the reason why Text::Iconv can't provide platform-independent support for codeset identifiers (even if it would be nice to have).

Installation
-------------

```
make install
```

Feedback
--------

Text::Iconv was tested on various platforms and with different iconv implementations.
If you built Text::Iconv on a platform where you needed to specify additional libraries, or where none of the codeset identifiers in the test scripts are supported, please drop me a note.

Thanks
------

Thanks go to all those who reported bugs and suggested features.

Michael Piotrowski <mzp@dynalabs.de>

Found in path(s):
* /opt/cola/permits/1144640811_1616146132.37/0/libtext-iconv-perl-1.7-orig-tar-bz2/Text-Iconv-1.7/README

1.633 google-flatbuffers 1.11.0

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---
Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
Source: keyspan_pda/xircom_pgs.S

Licence: GPLv2+

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

--------------------------------------------------------------------------

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin
Source: dsp56k/bootstrap.asm

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DSP56001 assembler, possibly buildable with a56 from
http://www.zdomain.com/a56.html

--------------------------------------------------------------------------

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis
File: cis/PCMLM28.cis
File: cis/DP83903.cis
File: cis/NE2K.cis
File: cis/tamarack.cis
File: cis/PE-200.cis
File: cis/PE520.cis
Source: cis/src/LA-PCM.cis
Source: cis/src/PCMLM28.cis
Source: cis/src/DP83903.cis
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Source: cis/src/PE-200.cis
Source: cis/src/PE520.cis

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Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

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Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

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Driver: serial_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis
File: cis/COMpad2.cis
File: cis/COMpad4.cis
Source: cis/src/MT5634ZLX.cis
Source: cis/src/RS-COM-2P.cis
Source: cis/src/COMpad2.cis
Source: cis/src/COMpad4.cis

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File: cis/SW_555_SER.cis
File: cis/SW_7xx_SER.cis
File: cis/SW_8xx_SER.cis

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These binary files are understood to be the preferred form for modification. They follow the PCMCIA Card Information Structure (CIS) format. The pcmcia-cs project <http://pcmcia-cs.sourceforge.net/> distributes tools for converting between CIS and an unofficial text format.

Driver: dvb-ttpci -- AV7110 cards

File: av7110/bootcode.bin
Source: av7110/Boot.S

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Driver: usbdux/usbduxfast/usbduxsigma - usbdux data acquisition cards

File: usbdux_firmware.bin
File: usbduxfast_firmware.bin
File: usbduxsigma_firmware.bin
Source: usbdux/fx2-include.asm
Source: usbdux/usbduxfast_firmware.asm
Source: usbdux/usbdux_firmware.asm
Source: usbdux/usbduxsigma_firmware.asm

Licence: GPLv2. See source code in usbdux/ subdirectory.

Provided from the author, Bernd Porr <BerndPorr@f2s.com>

Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin
Source: isci/create_fw.c
Source: isci/create_fw.h
Source: isci/probe_roms.h
Source: isci/Makefile
Licence: GPLv2

--------------------------------------------------------------------------

Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/

Downloaded from http://linuxwireless.org/en/users/Drivers/carl9170

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1.656 gmp 6.2.1+dfsg-1+deb11u1

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This gmp package was built for Debian by

Steve M. Robbins <smr@debian.org>
Philipp Matthias Hahn <pmhahn@debian.org>

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1.657 init-system-helpers 1.60

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1.658 python-dateutil 2.8.2

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1.659 goprotobuf 1.4.3

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1.660 urllib3 1.26.6-1.ph1

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Name: msrest
Version: 0.6.21
Summary: AutoRest swagger generator Python client runtime.
Home-page: https://github.com/Azure/msrest-for-python
Author: Microsoft Corporation
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Description: AutoRest: Python Client Runtime

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Installation
-------------

To install:

.. code-block:: bash

   $ pip install msrest

Release History
---------------

2021-01-26 Version 0.6.21
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**Bug Fixes**

- Fixes `failsafe_deserialize` introduced in `0.6.20` #232

2021-01-25 Version 0.6.20
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**Features**

- Add `failsafe_deserialize` method to the `Deserializer` object. #232
- Serialize `datetime`, `date`, `time`, `timedelta` and `Decimal` correctly when serializing `object`. #224

2020-09-08 Version 0.6.19
+++++++++++++++++++++++++

**Bugfixes**
- Fix serialization of random Model object #220
- Fix serialization of unicode string in Py2 and object mode #221

2020-07-27 Version 0.6.18
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**Features**

- Add support for attributes/text in the same XML node #218

2020-06-25 Version 0.6.17
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**Bugfixes**

- Fix XML and discriminator #214

2020-06-09 Version 0.6.16
++++++++++++++++++++++++++

**Bugfixes**

- Fix XML parsing with namespaces and attributes #209

**Features**

- Add py.typed for mypy support

2020-06-04 Version 0.6.15
++++++++++++++++++++++++++

**Bugfixes**

- Fix RFC regression introduced in 0.6.14 (RFC parse date are no longer pickable) #208
- Fix XML parsing with namespaces #206

Thanks to ivanst0 for the contribution

2020-05-18 Version 0.6.14
++++++++++++++++++++++++++

**Bugfixes**
- Fix "from_dict" in some complex flattening scenario #204
- Fix RFC date parsing if machine locale is not English #201

2020-04-07 Version 0.6.13
+++++++++++++++++++++++++

**Bugfixes**

- Fix deserializer and flattening if intermediate node is None #198
- Fix validation exception message for minimum/maximum checks #199

2020-04-06 Version 0.6.12
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**Features**

- Add "time" serializer/deserializer #196

2020-01-30 Version 0.6.11
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**Features**

- XML mode can now be enabled even if the given Model has no XML metadata #184
- Add Kerberos Authentication #186
- Improve error message if expected type is dictionary and something else is provided #188

**Bugfixes**

- Fix comma separated serialization of array in query #186
- Fix validation of basic types in some complex scenario #189

Thanks to catatonicprime for the contribution

2019-09-04 Version 0.6.10
+++++++++++++++++++++++++

**Features**

- XML mode now supports OpenAPI additional properties #174

**Bugfixes**

- Accept "is_xml" kwargs to force XML serialization #178
- Disable XML deserialization if received element is not an ElementTree #178
- A "null" enum deserialize as None, and not "None" anymore #173
- Fix some UTF8 encoding issue in Python 2.7 and XML mode  #172

2019-07-24 Version 0.6.9
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**Features**

- Accept extensions of JSON mimetype as valid JSON  #167

2019-06-24 Version 0.6.8
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**BugFixes**

- Impossible to serialize XML if model contains UTF8 characters on Python 2.7  #165
- Impossible to deserialize a HTTP response as XML if body contains UTF8 characters on Python 2.7  #165
- Loading a serialized configuration fails with NameError on NoOptionError  #162

Thanks to cclauss for the contribution

2019-06-12 Version 0.6.7
++++++++++++++++++++++++

**Features**

- Add DomainCredentials credentials for EventGrid

Thanks to kalyanaj for the contribution

2019-03-21 Version 0.6.6
++++++++++++++++++++++++

**Bugfixes**

- Make 0.6.x series compatible with pyinstaller again
- sdist now includes tests

Thanks to dotlambda for the contribution

2019-03-11 Version 0.6.5
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**Bugfixes**

- Fix list of integers serialization if div is provided #151
- Fix parsing of UTF8 with BOM #145
Thanks to eduardomourar for the contribution

2019-01-09 Version 0.6.4
++++++++++++++++++++++++

**Bugfixes**

- Fix regression on credentials configuration if used outside of Autorest scope #135

2019-01-08 Version 0.6.3
++++++++++++++++++++++++

**Features**

- Updated **experimental** async support. Requires Autorest.Python 4.0.64.

2018-11-19 Version 0.6.2
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**Bugfixes**

- Fix circular dependency in TYPE_CHECKING mode #128

2018-10-15 Version 0.6.1
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**Bugfixes**

- Remove unnecessary verbose "warnings" log #126

2018-10-02 Version 0.6.0
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**Features**

- The environment variable AZURE_HTTP_USER_AGENT, if present, is now injected part of the UserAgent
- New **preview** msrest.universal_http module. Provide tools to generic HTTP management (sync/async, requests/aiohttp, etc.)
- New **preview** msrest.pipeline implementation:
  - A Pipeline is an ordered list of Policies than can process an HTTP request and response in a generic way.
  - More details in the wiki page about Pipeline: https://github.com/Azure/msrest-for-python/wiki/msrest-0.6.0-
  -Pipeline

  - Adding new attributes to Configuration instance:
    - http_logger_policy - Policy to handle HTTP logging
    - user_agent_policy - Policy to handle UserAgent
- pipeline - The current pipeline used by the SDK client
- async_pipeline - The current async pipeline used by the async SDK client

- Installing "msrest[async]" now installs the **experimental** async support. Works ONLY for AutoRest.Python 4.0.63.

**Breaking changes**

- The HTTPDriver API introduced in 0.5.0 has been replaced by the Pipeline implementation.

- The following classes have been moved from "msrest.pipeline" to "msrest.universal_http":
  - ClientRedirectPolicy
  - ClientProxies
  - ClientConnection

- The following classes have been moved from "msrest.pipeline" to "msrest.universal_http.requests":
  - ClientRetryPolicy

**Bugfixes**

- Fix "long" on Python 2 if used with the "object" type #121

Thanks to robgolding for the contribution

2018-09-04 Version 0.5.5
++++++++++++++++++++++++

**Bugfixes**

- Fix a serialization issue if additional_properties is declared, and "automatic model" syntax is used
  ("automatic model" being the ability to pass a dict to command and have the model auto-created) # 120

2018-07-12 Version 0.5.4
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**Features**

- Support additionalProperties and XML

**BugFixes**

- Better parse empty node and not string types
- Improve "object" XML parsing

2018-07-10 Version 0.5.3
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**Bugfixes**

- Fix some XML serialization subtle scenarios

2018-07-09 Version 0.5.2
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**Features**

- deserializer/from_dict now accepts a content-type parameter to parse XML strings

**Bugfixes**

- Fix some complex XML Swagger definitions.

This release likely breaks already generated XML SDKs, that needs to be regenerated with autorest.python 3.0.58

2018-06-21 Version 0.5.1
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**Bugfixes**

- Lower Accept header overwrite logging message #110
- Fix 'object' type and XML format

Thanks to dharmab for the contribution

2018-06-12 Version 0.5.0
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**Disclaimer**

This released is designed to be backward compatible with 0.4.x, but there is too many internal refactoring and new features to continue with 0.4.x versionning

**Features**

- Add XML support
- Add many type hints, and MyPY testing on CI.
- HTTP calls are made through a HTTPDriver API. Only implementation is `requests` for now. This driver API is *not* considered stable
  and you should pin your msrest version if you want to provide a personal implementation.

**Bugfixes**

- Incorrect milliseconds serialization for some datetime object #94
**Deprecation**

That will trigger a DeprecationWarning if an old Autorest generated code is used.

- `_client.add_header` is deprecated, and `config.headers` should be used instead
- `_client.send FormData` is deprecated, and `_client.put/get/delete/post + _client.send` should be used instead

2018-04-30 Version 0.4.29

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**Bugfixes**

- Improve `SDKClient.__exit__` to take exc_details as optional parameters and not required #93
- `refresh_session` should also use the permanent HTTP session if available #91

2018-04-18 Version 0.4.28

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**Features**

- `msrest` is now able to keep the "requests.Session" alive for performance. To activate this behavior:
  - Use the final Client as a context manager (requires generation with Autorest.Python 3.0.50 at least)
  - Use `client.config.keep_alive = True` and `client.close()` (requires generation with Autorest.Python 3.0.50 at least)
  - Use `client.config.keep_alive = True` and `client._client.close()` (not recommended, but available in old releases of SDK)

- All Authentication classes now define `signed_session` and `refresh_session` with an optional `session` parameter.
  To take benefits of the session improvement, a subclass of Authentication *MUST* add this optional parameter
  and use it if it's not `None`:

  ```python
  def signed_session(self, session=None):
      session = session or requests.Session()
  
      # As usual from here.
  ```

2018-03-07 Version 0.4.27

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**Features**

- Disable HTTP log by default (security), add `enable_http_log` to restore it #86

**BugFixes**
- Fix incorrect date parsing if ms precision is over 6 digits #82

2018-01-30 Version 0.4.26
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**Features**

- Add TopicCredentials for EventGrid client

**Bugfixes**

- Fix minimal dependency of isodate
- Fix serialisation from dict if datetime provided

2018-01-08 Version 0.4.25
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**Features**

- Add LROPoller class. This is a customizable LRO engine.
  This is the poller engine of Autorest.Python 3.0, and is not used by code generated by previous Autorest version.

2018-01-03 Version 0.4.24
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**Bugfixes**

- Date parsing is now compliant with Autorest / Swagger 2.0 specification (less lenient)

**Internal optimisation**

- Call that does not return a streamable object are now executed in requests stream mode False (was True whatever the type of the call).
  This should reduce the number of leaked opened session and allow urllib3 to manage connection pooling more efficiently.
  Only clients generated with Autorest.Python >= 2.1.31 (not impacted otherwise, fully backward compatible)

2017-12-21 Version 0.4.23
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**Bugfixes**

- Accept to deserialize enum of different type if content string match #75
- Stop failing on deserialization if enum string is unkwn. Return the string instead.

**Features**
- Model now accept kwargs in constructor for future kwargs models

2017-12-15 Version 0.4.22

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**Bugfixes**

- Do not validate additional_properties #73
- Improve validation error if expected type is dict, but actual type is not #73

2017-12-14 Version 0.4.21

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**Bugfixes**

- Fix additional_properties if Swagger was flatten #72

2017-12-13 Version 0.4.20

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**Features**

- Add support for additional_properties
  - By default, all additional_properties are kept.
  - Additional properties are sent to the server only if it was specified in the Swagger, or if "enable_additional_properties_sending" is called on the model we want it. This is a class method that enables it for all instance of this model.

2017-11-20 Version 0.4.19

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**Features**

- The interpretation of Swagger 2.0 "discriminator" is now lenient. This means for these two scenarios:
  - Discriminator value is missing from the received payload
  - Discriminator value is not defined in the Swagger

Instead of failing with an exception, this now returns the base type for this "discriminator".

Note that this is not a contradiction of the Swagger 2.0 spec, that specifies "validation SHOULD fail [...] there may exist valid reasons in particular circumstances to ignore a particular item,
but the full implications must be understood and carefully weighed before choosing a different course."

This cannot be configured for now and is the new default behvaior, but can be in the future if needed.
**Bugfixes**

- Optional formdata parameters were raising an exception (#65)
- "application/x-www-form-urlencoded" form was sent using "multipart/form-data". This causes problems if the server does not support "multipart/form-data" (#66)

2017-10-26 Version 0.4.18
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**Features**

- Add ApiKeyCredentials class. This can be used to support OpenAPI ApiKey feature.
- Add CognitiveServicesAuthentication class. Pre-declared ApiKeyCredentials class for Cognitive Services.

2017-10-12 Version 0.4.17
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**Features**

This make Authentication classes more consistent:

- OAuthTokenAuthentication is now a subclass of BasicTokenAuthentication (was Authentication)
- BasicTokenAuthentication has now a "set_token" methods that does nothing.

This allows test like "isinstance(o, BasicTokenAuthentication)" to be guaranted that the following attributes exists:

- token
- set_token()
- signed_session()

This means for users of "msrestazure", that they are guaranted that all AD classes somehow inherits from "BasicTokenAuthentication"

2017-10-05 Version 0.4.16
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**Bugfixes**

- Fix regression: accept "set<str>" as a valid "[str]" (#60)

2017-09-28 Version 0.4.15
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**Bugfixes**

- Always log response body (#16)
- Improved exception message if error JSON is Odata v4 (#55)
- Refuse "str" as a valid "[str]" type (#41)
- Better exception handling if input from server is not JSON valid

**Features**

- Add Configuration.session_configuration_callback to customize the requests.Session if necessary (#52)
- Add a flag to Serializer to disable client-side-validation (#51)
- Remove "import requests" from "exceptions.py" for apps that require fast loading time (#23)

Thank you to jayden-at-arista for the contribution

2017-08-23 Version 0.4.14
+---------------------------------------------+

**Bugfixes**

- Fix regression introduced in msrest 0.4.12 - dict syntax with enum modeled as string and enum used

2017-08-22 Version 0.4.13
+---------------------------------------------+

**Bugfixes**

- Fix regression introduced in msrest 0.4.12 - dict syntax using isodate.Duration (#42)

2017-08-21 Version 0.4.12
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**Features**

- Input is now more lenient
- Model have a "validate" method to check content constraints
- Model have now 4 new methods:
  - "serialize" that gives the RestAPI that will be sent
  - "as_dict" that returns a dict version of the Model. Callbacks are available.
  - "deserialize" the parses the RestAPI JSON into a Model
  - "from_dict" that parses several dict syntax into a Model. Callbacks are available.

More details and examples in the Wiki article on Github:
https://github.com/Azure/msrest-for-python/wiki/msrest-0.4.12---Serialization-change

**Bugfixes**

- Better Enum checking (#38)

2017-06-21 Version 0.4.11
**Bugfixes**

- Fix incorrect dependency to "requests" 2.14.x, instead of 2.x meant in 0.4.8

2017-06-15 Version 0.4.10

**Features**

- Add requests hooks to configuration

2017-06-08 Version 0.4.9

**Bugfixes**

- Accept "null" value for paging array as an empty list and do not raise (#30)

2017-05-22 Version 0.4.8

**Bugfixes**

- Fix random "pool is closed" error (#29)
- Fix requests dependency to version 2.x, since version 3.x is announced to be breaking.

2017-04-04 Version 0.4.7

**Bugfixes**

- Refactor paging #22:
  - "next" is renamed "advance_page" and "next" returns only 1 element (Python 2 expected behavior)
  - paging objects are now real generator and support the "next()" built-in function without need for "iter()"
  - Raise accurate DeserialisationError on incorrect RestAPI discriminator usage #27
- Fix discriminator usage of the base class name #27
- Remove default mutable arguments in Clients #20
- Fix object comparison in some scenarios #24

2017-03-06 Version 0.4.6

**Bugfixes**
- Allow Model sub-classes to be serialized if type is "object"

2017-02-13 Version 0.4.5
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**Bugfixes**

- Fix polymorphic deserialization #11
- Fix regexp validation if \w is used in Python 2.7 #13
- Fix dict deserialization if keys are unicode in Python 2.7

**Improvements**

- Add polymorphic serialisation from dict objects
- Remove chardet and use HTTP charset declaration (fallback to utf8)

2016-09-14 Version 0.4.4
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**Bugfixes**

- Remove paging URL validation, part of fix https://github.com/Azure/autorest/pull/1420

**Disclaimer**

In order to get paging fixes for impacted clients, you need this package and Autorest > 0.17.0 Nightly 20160913

2016-09-01 Version 0.4.3
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**Bugfixes**

- Better exception message (https://github.com/Azure/autorest/pull/1300)

2016-08-15 Version 0.4.2
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**Bugfixes**

- Fix serialization if "object" type contains None (https://github.com/Azure/autorest/issues/1353)

2016-08-08 Version 0.4.1
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**Bugfixes**

- Fix compatibility issues with requests 2.11.0 (https://github.com/Azure/autorest/issues/1337)
- Allow url of ClientRequest to have parameters (https://github.com/Azure/autorest/issues/1217)
2016-05-25 Version 0.4.0
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This version has no bug fixes, but implements new features of Autorest:
- Base64 url type
- unixtime type
- x-ms-enum modelAsString flag

**Behaviour changes**

- Add Platform information in UserAgent
- Needs Autorest > 0.17.0 Nightly 20160525

2016-04-26 Version 0.3.0
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**Bugfixes**

- Read only values are no longer in __init__ or sent to the server (https://github.com/Azure/autorest/pull/959)
- Useless kwarg removed

**Behaviour changes**

- Needs Autorest > 0.16.0 Nightly 20160426

2016-03-25 Version 0.2.0
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**Bugfixes**

- Manage integer enum values (https://github.com/Azure/autorest/pull/879)
- Add missing application/json Accept HTTP header (https://github.com/Azure/azure-sdk-for-python/issues/553)

**Behaviour changes**

- Needs Autorest > 0.16.0 Nightly 20160324

2016-03-21 Version 0.1.3
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**Bugfixes**

- Deserialisation of generic resource if null in JSON (https://github.com/Azure/azure-sdk-for-python/issues/544)
2016-03-14 Version 0.1.2
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**Bugfixes**

- urllib3 side effect (https://github.com/Azure/autorest/issues/824)

2016-03-04 Version 0.1.1
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**Bugfixes**

- Source package corrupted in Pypi (https://github.com/Azure/autorest/issues/799)

2016-03-04 Version 0.1.0
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**Behavioural Changes**

- Removed custom logging set up and configuration. All loggers are now children of the root logger 'msrest' with no pre-defined configurations.
- Replaced _required attribute in Model class with more extensive _validation dict.

**Improvement**

- Removed hierarchy scanning for attribute maps from base Model class - relies on generator to populate attribute maps according to hierarchy.
- Base class Paged now inherits from collections.Iterable.
- Data validation during serialization using custom parameters (e.g. max, min etc).
- Added ValidationError to be raised if invalid data encountered during serialization.

2016-02-29 Version 0.0.3
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**Bugfixes**

- Source package corrupted in Pypi (https://github.com/Azure/autorest/issues/718)

2016-02-19 Version 0.0.2
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**Bugfixes**

- Fixed bug in exception logging before logger configured.
2016-02-19 Version 0.0.1

- Initial release.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
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 :: 3.9
Classifier: License :: OSI Approved :: MIT License
Classifier: Topic :: Software Development
Provides-Extra: async

Found in path(s):
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/msrest.egg-info/PKG-INFO
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/PKG-INFO

1.663 fn-name 3.0.0

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1.664 acl 2.2.53-4

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1.665 python-cffi 1.12.2-1

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1.666 lz4 1.9.3-2

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import (
    "bytes"
    "io/ioutil"
    "os"
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    "regexp"
    "testing"
)

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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
        }

        return filepath.SkipDir
    })
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)
}
}

## 1.669 kronosnet 1.8-2

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1.671 libcap-ng 0.7.9 2.2+b1
1.671.1 Available under license:

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Version 2.1, February 1999

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1.673 protobuf 1.26.0-rc.1

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1.675 go-cty 1.10.0
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1.676 go-colorable 0.1.6

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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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1.680 libusb-compat 0.1.12-32

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1.681 python-requests 2.27.1

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1.682 gnutls 3.7.1-5

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

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1.694 kafka 0.0.0-20171203153745-e2edea948ddf

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tomb - support for clean goroutine termination in Go.

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1.696 icu 69.1-r1

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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 -$l$(notdir $(MIDDLE_SO_TARGET))

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

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

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

## 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'
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This file is derived from the above dictionary, with slight modifications.

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# --------------------------------------------------------------------------

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#
# This list is part of a project hosted at:
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#
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1.699 sg3-utils 1.44-1

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Douglas Gilbert
10th April 2012

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1.700 styled-components 5.3.3
1.700.1 Available under license:

No license file was found, but licenses were detected in source scan.
- Does this error occur on the server and is the sheet falsy?
- Does your document not have a valid head element?
- Have you accidentally removed a style tag manually?
- You might be trying to use SSR on the client?
- Are you trying to run SSR on the server?
- Are you using a custom target that isn't mounted?
- Does your document not have a valid head element?
- Have you accidentally removed a style tag manually?

The clone method cannot be used on the client!

- Are you running in a client-like environment on the server?
- Are you trying to run SSR on the client?

Trying to insert a new style tag, but the given Node is unmounted!

- Are you using a custom target that isn't mounted?
- Does your document not have a valid head element?
- Have you accidentally removed a style tag manually?

It seems you are interpolating a keyframe declaration (%) into an untagged string. This was supported in styled-components v3, but is not longer supported in v4 as keyframes are now injected on-demand. Please wrap your string in the css\`css\` helper which ensures the styles are injected correctly. See https://www.styled-components.com/docs/api#css

```js
theme() => ({})
```

- Are you using a custom target that isn't mounted?
- Does your document not have a valid head element?
- Have you accidentally removed a style tag manually?

This error was replaced with a dev-time warning, it will be deleted for v4 final.

- Are you running in a client-like environment on the server?
- Are you trying to run SSR on the client?

You may only create up to 1,073,741,824 components. If you're creating components dynamically, you may be running into this limitation.

CSSStyleSheet could not be found on HTMLStyleElement. Has styled-components' style tag been unmounted or altered by another script?

- Are you running in a client-like environment on the server?
- Are you trying to run SSR on the client?

CSSStyleSheet could not be found on HTMLStyleElement. Has styled-components' style tag been unmounted or altered by another script?

Has styled-components' style tag been unmounted or altered by another script?

- Are you running in a client-like environment on the server?
- Are you trying to run SSR on the client?

- Are you running in a client-like environment on the server?
- Are you trying to run SSR on the client?
export const resetGroupIds = () => {
  groupIDRegister = new Map();
  reverseRegister = new Map();
  nextFreeGroup = 1;
};

export const getGroupForId = (id: string): number => {
  if (groupIDRegister.has(id)) {
    return (groupIDRegister.get(id): any);
  }

  while (reverseRegister.has(nextFreeGroup)) {
    nextFreeGroup++;
  }

  const group = nextFreeGroup++;

  if (process.env.NODE_ENV !== 'production' &&
      ((group | 0) < 0 || group > MAX_SMI)) {
    throwStyledError(16, `${group}`);
  }

  groupIDRegister.set(id, group);
  reverseRegister.set(group, id);
  return group;
};

export const getIdForGroup = (group: number): void | string => {
  return reverseRegister.get(group);
};

export const setGroupForId = (id: string, group: number) => {
  if (group >= nextFreeGroup) {
    nextFreeGroup = group + 1;
  }

  groupIDRegister.set(id, group);
  reverseRegister.set(group, id);
};

// @flow
const SPLITTER, SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION = require('constants');

const SELECTOR = `style\[(\d+)\]`; // @flow
const MARKER_RE = new RegExp(`^\$\[\[\w+][\w+-]+\]">.*?"\]$\[\w+\]`);

export const outputSheet = (sheet: Sheet) => {
  const tag = sheet.getTag();
  const { length } = tag;

  let css = '';
  for (let group = 0; group < length; group++) {
    const id = getIdForGroup(group);
    if (id === undefined) continue;

    const rules = tag.getGroup(group);
    if (!rules || !rules.size) continue;

    const selector = `${SC_ATTR}.g${group}[id="${id}"]`;

    let content = '';
    for (const name of rules.keys()) {
      content += `${name},`;
    }

    // NOTE: It's easier to collect rules and have the marker
    // after the actual rules to simplify the
    // rehydration
    css += `${rules} ${selector}{content: ${content}} ${SPLITTER}`;
  }

  return css;
};

const rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {
  const names = content.split(',');
  let name;

  for (let i = 0, l = names.length; i < l; i++) {
    // eslint-disable-next-line
    if ((name = names[i])) {
      sheet.registerName(id, name);
    }
  }
};

const rehydrateSheetFromTag = (sheet: Sheet, style: HTMLStyleElement) => {
  const parts = (style.textContent || '').split(SPLITTER);
  const rules: string[] = [];

  for (let i = 0, l = parts.length; i < l; i++) {
    const part = parts[i].trim();
    if (!part) continue;

    const marker = part.match(MARKER_RE);

    if (marker) {
      const group = parseInt(marker[1], 10) | 0;
      const id = marker[2];

      if (group !== 0) {
        // Rehydrate componentId to group index mapping
        setGroupForId(id, group);
        // Rehydrate names and rules
        // looks like: data-
        // styled.g11[id="idA"]{content:"nameA,"}
        rehydrateNamesFromContent(sheet, id, marker[3]);
        sheet.getTag().insertRules(group, rules);
      }

      rules.length = 0;
    } else {
      rules.push(part);
    }
  }
};

export const rehydrateSheet = (sheet: Sheet) => {
  const nodes = document.querySelectorAll(SELECTOR);

  for (let i = 0, l = nodes.length; i < l; i++) {
    const node = nodes[i];
    if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE) {
      rehydrateSheetFromTag(sheet, node);
      node.parentNode.removeChild(node);
    }
  }
};

// @flow
import { SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from '../constants';
import getNonce from '../utils/nonce';
import throwStyledError from '../utils/error';

const ELEMENT_TYPE = 1; /* Node.ELEMENT_TYPE */

/** Find
* last style element if any inside target */
const findLastStyleTag = (target: HTMLElement): void | HTMLStyleElement => {
  const { childNodes } = target;

  for (let i = childNodes.length; i >= 0; i--) {
    const child = childNodes[i];
    if (child && child.nodeType === ELEMENT_TYPE &&
        child.hasAttribute(SC_ATTR)) {
      return child; // @flow
    }
  }

  return undefined;
};

/** Create a style element inside `target` or <head> after the last */
export const makeStyleTag = (target: HTMLElement): HTMLStyleElement => {
  const head = document.head;
  const parent = target || head;
  const style = document.createElement('style');
  const prevSibling = parent.previousSibling;

  // @flow
  const nonce = getNonce();

  style.textContent = `style\[(\d+)\]`; // @flow
  style.setAttribute('data-styled', nonce);

  // @flow
  style.setAttribute(SC_ATTR, nonce);

  if (prevSibling) {
    parent.insertBefore(style, prevSibling);
  } else {
    parent.appendChild(style);
  }

  return style;
};

// @flow
/* eslint-disable camelcase, no-undef */

declare var window: { __webpack_nonce__: string };

const getNonce = () => {

  return typeof window
    ? typeof window.__webpack_nonce__ !== 'undefined'
      ? window.__webpack_nonce__
    : null
};

export default getNonce;

**Create a CSSStyleSheet-like tag depending on the environment */

```javascript
/** Get the CSSStyleSheet instance for a given style element */
export const getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {
  if (tag.sheet) {
    return (tag.sheet: any): CSSStyleSheet;
  }

  // Avoid Firefox quirk where the style element might not have a sheet property
  const [stylesheets] = document
    .styleSheets
    .filter
    (sheet
      => sheet.ownerNode === tag
    );

  // Avoid IE11 quirk where cssText is inaccessible on some invalid rules
  if (rule !== undefined && typeof rule.cssText === 'string') {
    return rule.cssText:
  }

  return (undefined: any);
};

/** A Tag that emulates the CSSStyleSheet API but uses text nodes */
export class TextTag implements Tag {
  element: HTMLStyleElement;

  nodes: NodeList<Node>;

  length: number;

  constructor(target?: HTMLElement) {
    const element = (this.element = makeStyleTag(target));
    this.nodes = element.childNodes;
    this.length = 0;
  }

  insertRule(index: number, rule: string): boolean {
    if (index <= this.length) {
      const node = document.createTextNode(rule);
      const refNode = this.nodes[index];
      this.element.insertBefore(node, refNode || null);
      this.length++;
      return true;
    } else {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.element.removeChild(this.nodes[index]);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.nodes[index].textContent;
    } else {
      return '';
    }
  }
}

/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */
export class VirtualTag implements Tag {
  rules: string[];

  length: number;

  constructor(_target?: HTMLElement) {
    this.rules = [];
    this.length = 0;
  }

  insertRule(index: number, rule: string): boolean {
    if (index <= this.length) {
      this.rules.splice(index, 0, rule);
      this.length++;
      return true;
    } else {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.rules.splice(index, 1);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.rules[index];
    } else {
      return '';
    }
  }
}
```

---

Original text:
```
style.setAttribute(SC_ATTR, SC_ATTR_ACTIVE);
style.setAttribute(SC_ATTR_VERSION, SC_VERSION);
const nonce = getNonce();
if (nonce) style.setAttribute('nonce', nonce);
parent.insertBefore(style, nextSibling);
return style;
};
/** Get the CSSStyleSheet instance for a given style element */
export const getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {
  if (tag.sheet) {
    return (tag.sheet: any): CSSStyleSheet;
  }

  const [stylesheets] = document.styleSheets;
  if (stylesheets.length > 0) {
    const sheet = stylesheets[0];
    if (sheet.ownerNode === tag) {
      return (sheet: any): CSSStyleSheet;
    }
  }

  throwStyledError(17); return (undefined: any);
};

// A Tag that emulates the CSSStyleSheet API but uses text nodes
export class TextTag implements Tag {
  element: HTMLStyleElement;

  nodes: NodeList<Node>;

  length: number;

  constructor(target?: HTMLElement) {
    const element = (this.element = makeStyleTag(target));
    this.nodes = element.childNodes;
    this.length = 0;
  }

  insertRule(index: number, rule: string): boolean {
    if (index <= this.length) {
      const node = document.createTextNode(rule);
      const refNode = this.nodes[index];
      this.element.insertBefore(node, refNode || null);
      this.length++;
      return true;
    } else {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.element.removeChild(this.nodes[index]);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.nodes[index].textContent;
    } else {
      return '';
    }
  }
}

/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */
export class VirtualTag implements Tag {
  rules: string[];

  length: number;

  constructor(_target?: HTMLElement) {
    this.rules = [];
    this.length = 0;
  }

  insertRule(index: number, rule: string): boolean {
    if (index <= this.length) {
      this.rules.splice(index, 0, rule);
      this.length++;
      return true;
    } else {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.rules.splice(index, 1);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.rules[index];
    } else {
      return '';
    }
  }
}
```

---

Original context:
```
// Get the CSSStyleSheet instance for a given style element

const nonce = getNonce();
if (nonce) style.setAttribute('nonce', nonce);
parent.insertBefore(style, nextSibling);
return style;
};

/** Get the CSSStyleSheet instance for a given style element */
export const getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {
  if (tag.sheet) {
    return (tag.sheet: any): CSSStyleSheet;
  }

  const [stylesheets] = document.styleSheets;
  if (stylesheets.length > 0) {
    const sheet = stylesheets[0];
    if (sheet.ownerNode === tag) {
      return (sheet: any): CSSStyleSheet;
    }
  }

  throwStyledError(17); return (undefined: any);
};

// A Tag that emulates the CSSStyleSheet API but uses text nodes
export class TextTag implements Tag {
  element: HTMLStyleElement;

  nodes: NodeList<Node>;

  length: number;

  constructor(target?: HTMLElement) {
    const element = (this.element = makeStyleTag(target));
    this.nodes = element.childNodes;
    this.length = 0;
  }

  insertRule(index: number, rule: string): boolean {
    if (index <= this.length) {
      const node = document.createTextNode(rule);
      const refNode = this.nodes[index];
      this.element.insertBefore(node, refNode || null);
      this.length++;
      return true;
    } else {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.element.removeChild(this.nodes[index]);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.nodes[index].textContent;
    } else {
      return '';
    }
  }
}

/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */
export class VirtualTag implements Tag {
  rules: string[];

  length: number;

  constructor(_target?: HTMLElement) {
    this.rules = [];
    this.length = 0;
  }

  insertRule(index: number, rule: string): boolean {
    if (index <= this.length) {
      this.rules.splice(index, 0, rule);
      this.length++;
      return true;
    } else {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.rules.splice(index, 1);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.rules[index];
    } else {
      return '';
    }
  }
}``
EMPTY_OBJECT,

    globalStyles?: GlobalStylesAllocationMap = {},
    names?: NamesAllocationMap
  ) {
    this.options = {
      ...defaultOptions,
      ...options,
    };

    this.gs = globalStyles;
    this.names = new

    // We rehydrate only once and use the sheet that is created
    if (this.server && IS_BROWSER && SHOULD_REHYDRATE) {
      SHOULD_REHYDRATE = false;
      rehydrateSheet(this);
    } \n
    this.server = !!options.isServer;
    \n    // Lazily initialises a GroupedTag for when it's actually needed
    getTag(): GroupedTag {
      return this.tag || makeGroupedTag(makeTag(this.options));
    } \n
    /** Check whether a name is known for caching */
    hasNameForId(id: string, name: string): boolean {
      return this.names.has(id) && (this.names.get(id): any).has(name);
    } \n
    /** Mark a group's name as known for caching */
    registerName(id: string, name: string) {
      getGroupForId(id);

      if (!this.names.has(id)) {
        const
          groupNames = new Set();
          groupNames.add(name);
          this.names.set(id, groupNames);
        } else {
          (this.names.get(id): any).add(name);
        }
      }

      /** Insert new rules which also marks the name as known */
      insertRules(id: string, name: string, rules: string[]): void {
        this.registerName(id, name);

        this.getTag().insertRules(getGroupForId(id), rules);
      } \n
      /** Clears all cached names for a given group ID */
      clearNames(id: string): void {
        if (this.names.has(id)) {
          (this.names.get(id): any).clear();
        }
      } \n
      /** Clears all rules for a given group ID */
      clearRules(id: string): void {
        this.getTag().clearGroup(getGroupForId(id));

        this.clearNames(id);
      } \n
      /** Clears the entire tag which deletes all rules but not its names */
      clearTag(): void {
        // NOTE: This does not clear the names, since it's only used during SSR
        // so that we can continuously output only new rules \n
        this.tag = undefined;
      } \n
      /** Outputs the current sheet as a CSS string with markers for SSR */
      toString(): string {
        return outputSheet(this);
      } \n
    const AD_REPLACER_R = /(a)(d)/gi;

    const charsLength = 52;

    /* start at 75 for 'a' until 'z' (25) and then start at 65 for */
    /* capitalised */
    const getAlphabeticChar = (code: number): string =>
      String.fromCharCode(code + (code >
        25 ? 39 : 97));

    export default function
      generateAlphabeticName(code: number): string {
        let name = '';
        let x;

        /* get a char and divide by alphabet-*
          length */
        for (x = Math.abs(code); x > charsLength; x = (x / charsLength) | 0) {
          name = getAlphabeticChar(x % charsLength) + name;
        }

        return (getAlphabeticChar(x % charsLength) + name).replace(AD_REPLACER_R, '$1-$2');
      } \n
    /* When we have separate strings it's useful to run a progressive*/
    /* version of djb2 where we pretend that */
    /* still looping over the same string */
    /* This is the 'capacity' of our alphabet i.e. 2x26 for all letters plus their */
    /* capitalised counterparts */
    const charsLength = 52;
    const hash = (x: string): number => {
      return phash(SEED, x);
    } \n
    const isStaticRules from '../utils/isStaticRules';

    export default function
      isStaticRules(rules: RuleSet): boolean {
      for (let i = 0; i < rules.length; i += 1) {
        if (isFunction(rule)) {
          return false;
        } \n
        return true;
      } \n
      return false;
    } \n
    const SEED = hash(SC_VERSION);

    export default class ComponentStyle {
      baseHash: number;
      baseStyle: ?ComponentStyle;
      constructor: rules: RuleSet;
      staticRulesId: string;
      componentId: string;

      public constructor({
        baseHash, baseStyle, ComponentStyle, componentId, string;
        isStatic, boolean;
        rules: RuleSet;
        staticRulesId: string;
        constructor: rules: RuleSet, componentId: string, baseStyle?: ComponentStyle;
      }) {
        this.rules = rules;
        this.staticRulesId = 
          // SC_VERSION gives us isolation between multiple runtimes on the page at once
          // this is
improved further with use of the babel plugin `\"namespace\"` feature

```javascript
this.baseHash = phash(SEED, componentId);
this.baseStyle = baseStyle;
// NOTE: This registers the componentId, which ensures a
// consistent order // for this component's styles compared to others
StyleSheet.registerId(componentId);

// Flattens a rule set into valid CSS
// * Hashes it, wraps the whole chunk in a .hash1234 
// * Returns the hash to be injected on render
* * *

const isStatic = require('is-static-style-scale');
const stylis = require('@emotion/stylis');
const { type, Stringifier } = require('./types');
const { EMPTY_ARRAY, EMPTY_OBJECT } = require('./empties');
const throwStyledError = require('./error');
const { phash, SEED } = require('./hash');
const insertRulePlugin = require('./stylisPluginInsertRule');

const COMMENT_REGEX = /^\s*\/\/.*$/gm;
const COMPLEX_SELECTOR_PREFIX = [':', '[', '.', '#'];

type StylisInstanceConstructorArgs = {
  options?: Object,
  plugins?: Array<Function>,
};

export default function createStylisInstance({
  options = EMPTY_OBJECT,
  plugins = EMPTY_ARRAY,
}:
```
css.replace(COMMENT_REGEX, "")
const cssStr = selector && prefix ? `{${prefix}} ${selector} { ${flatCSS} }` : flatCSS;

// stylis has no concept of state to be passed to plugins but since JS is single-threaded, we can rely on that to ensure
// these properties stay in sync with the current stylis run

_componentId = componentId;
_selector = selector;
_selectorRegExp = new RegExp(`\$(\${selector})\b`, 'g');

_consecutiveSelfRefRegExp = new RegExp(`(\${selector})\b{2,}`);

return stylis(prefix || !selector ? '' : selector, cssStr);

stringifyRules.hash = plugins.length ? plugins.reduce((acc, plugin) => {
  if (!plugin.name) {
    throwStyledError(15);
  }

  return phash(acc, plugin.name);
}, SEED) : ";\nreturn stringifyRules;\n",

/*
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 *
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 *
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 */

export default function(insertRule) {
  const delimiter = '/*|*/';
  const needle = `${delimiter}}`;

  function toSheet(block) {
    if (block) {
      try {
        insertRule(`${block}}`);
      } catch (e) {}
    }
  }

  return function ruleSheet(
    context,
    content,
    selectors,
    parents,
    line,
    column,
    length,
    ns,
    depth,
    at
  ) {
    switch (context) {
      case 1:
        // @import
        if (depth === 0 && content.charCodeAt(0) === 64) return insertRule(`${content};`), '';
        break;
      case 2:
        if (ns === 0) return content + delimiter;
        break;
      case 3:
        switch (ns) {
          case 102:
          case 112:
            return insertRule(selectors[0] + content), '';
          default:
            return content + (at === 0 ? delimiter : '');
        }
        break;
      case -2:
        content.split(needle).forEach(toSheet);
    }
  };
is StatelessFunction(test: any): boolean {
  return (typeof test === 'function' && test.prototype.isReactComponent)
}

// @flow
import unitless from '@emotion/unitless';

// Taken from https://github.com/facebook/react/blob/b87aabadfe1b7461e7331abb3601d9e66bb27544bc/packages/react-dom/src/shared/dangerousStyleValue.js

export default function addUnitIfNeeded(name: string, value: any): any {
  // https://github.com/amilajack/eslint-plugin-flowtype-errors/issues/133
  if (value == null || typeof value === 'boolean' || value === '') {
    return '';
  }

  if (typeof value === 'number' && value !== 0 && !(name in unitless)) {
    return `$${value}px`;
  }

  return String(value).trim();
}

// @flow
import interleave from '../utils/interleave';
import isPlainObject from '../utils/isPlainObject';
import { EMPTY_ARRAY } from '../utils/empties';
import isFunction from '../utils/isFunction';
import flatten from '../utils/flatten';
import type { Interpolation, RuleSet, Styles } from '../types';

/**
 * Used when flattening object styles to determine if we should * expand an array of styles.
 */
const addTag = arg => {
  if (Array.isArray(arg)) {
    // eslint-disable-next-line no-param-reassign
    arg.isCss = true;
  }
  return arg;
};

export default function css(styles: Styles, ...interpolations: Array<Interpolation>): RuleSet {
  if (isFunction(styles) || isPlainObject(styles)) {
    // $FlowFixMe
    return addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));
  }

  if (interpolations.length === 0 && styles.length === 1 && typeof styles[0] === 'string') {
    // $FlowFixMe
    return styles;
  }

  // $FlowFixMe
  return addTag(flatten(interleave(styles, interpolations)));
}

// @flow
import { useRef } from 'react';

const invalidHookCallRe = /invalid hook call/i;
const seen = new Set();

export const checkDynamicCreation = (displayName: string, componentId?: string) => {
  if (process.env.NODE_ENV !== 'production') {
    const parsedIdString = componentId ? ` with the id of "${componentId}"` : '';
    const message = `The component ${displayName}${parsedIdString} has been created dynamically.\nYou may see this warning because you've styled inside another component.\nTo resolve this only create new StyledComponents outside of any render method and function component.\nIf a hook is called outside of a component:\n // React 17 and earlier throw an error\n // React 18 and above use console.error\n\n const originalConsoleError = console.error // eslint-disable-line no-console\n try {
   let didNotCallInvalidHook = true\n   /* $FlowIgnore[cannot-write] */
   console.error = (consoleErrorMessage, ...consoleErrorArgs) => { // eslint-disable-line no-console
     // The error here is expected, since we're expecting anything that uses\n     // checkDynamicCreation to throw\n     // If it doesn't, then we're inside another component\n     // eslint-disable-next-line react-hooks/rules-of-hooks\n     useRef();\n     if (didNotCallInvalidHook && !seen.has(message)) {
       // eslint-disable-next-line no-console\n       console.warn(message);
       seen.add(message);
     }
   }\n   // We purposefully call `useRef` outside of a component and expect it to throw\n   // If it doesn't, then we're inside another component\n   // eslint-disable-next-line react-hooks/rules-of-hooks\n   useRef();\n   if (didNotCallInvalidHook && !seen.has(message)) {
     // This shouldn't happen, but resets `warningSeen` if we had this error happen intermittently\n     seen.delete(message);
   }
 } else {
   originalConsoleError(consoleErrorMessage, \n   // eslint-disable-next-line console-error
   console.error = (consoleErrorMessage, ...consoleErrorArgs) => {
     if (didNotCallInvalidHook && !seen.has(message)) {
       // $FlowIgnore[cannot-write] */\n       console.error = (consoleErrorMessage, ...consoleErrorArgs) => {
         // eslint-disable-next-line no-console
         console.warn(message);
         seen.add(message);
       }\n     }\n   }\n   // This shouldn't happen, but resets `warningSeen` if we had this error happen intermittently\n   seen.delete(message);\n } finally {\n   /* $FlowIgnore[cannot-write] */\n   console.error = originalConsoleError;\n   // eslint-disable-next-line console-error
   console.error = (consoleErrorMessage, ...consoleErrorArgs) => {
     if (didNotCallInvalidHook && !seen.has(message)) {
       // $FlowIgnore[cannot-write] */\n       console.error = (consoleErrorMessage, ...consoleErrorArgs) => {
         // eslint-disable-next-line no-console
         console.warn(message);
         seen.add(message);
       }\n     }\n   }\n   // Replace all possible CSS selectors\n   .replace(escapeRegex, '.*')\n   // Remove extraneous hyphens at the start and end\n   .replace(dashesAtEnds, '.*')\n   // @flow
   * eslint-disable *\n   import generateAlphabeticName from...
import { hash } from './hash';

export default (str: string): string => {
  return generateAlphabeticName(hash(str) >>> 0);
};

// @flow
import type { IStyledComponent } from '../types';

export default function isTag(target: $PropertyType<IStyledComponent, 'target'>): boolean {
  return (
    typeof target === 'string' &&
    (process.env.NODE_ENV !== 'production' ? target.charAt(0) === target.charAt(0).toLowerCase() : true)
  );
}

/* eslint-disable */
/**
  mixin-deep;
  https://github.com/jonschlinkert/mixin-deep
  Inlined such that it will be consistently transpiled to an IE-compatible syntax.

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*/

const isObject = val => {
  return (typeof val === 'function' || (typeof val === 'object' && val !== null && !Array.isArray(val)));
};

const isValidKey = key => {
  return key !== '__proto__' && key !== 'constructor' && key !== 'prototype';
};

function mixin(target, val, key) {
  const obj = target[key];
  if (isObject(val) && isObject(obj)) {
    mixinDeep(obj, val);
  } else {
    target[key] = val;
  }
}

export default function mixinDeep(target, ...rest) {
  for (const obj of rest) {
    if (isObject(obj)) {
      for (const key in obj) {
        if (isValidKey(key)) {mixin(target, obj[key], key);}
      }
    }
  }

  return target;
}

// @flow
import React, { useContext, useMemo, type Element, type Context } from 'react';
import throwStyledError from '../utils/error';
import isFunction from '../utils/isFunction';

export type Theme = { [key: string]: mixed };

export type ThemeArgument = Theme | ((outerTheme?: Theme) => Theme);

export type Props = {
  children?: Element<any>,
  theme: ThemeArgument,
};

export const ThemeContext: Context<Theme | void> = React.createContext();

export const ThemeConsumer = ThemeContext.Consumer;

function mergeTheme(theme: ThemeArgument, outerTheme?: Theme): Theme {
  if (!theme) {
    return throwStyledError(14);
  }

  if (isFunction(theme)) {
    const mergedTheme = theme(outerTheme);

    if (process.env.NODE_ENV !== 'production' && (mergedTheme === null || Array.isArray(mergedTheme) || typeof mergedTheme !== 'object')) {
      return throwStyledError(7);
    }

    return mergedTheme;
  }

  if (Array.isArray(theme) || typeof theme !== 'object') {
    return throwStyledError(8);
  }

  return outerTheme ? { ...outerTheme, ...theme } : theme;
}

/**
 * Provide a theme to an entire react component tree via context
 */
export default function ThemeProvider(props: Props) {
  const outerTheme = useContext(ThemeContext);
  const themeContext = useMemo(() => mergeTheme(props.theme, outerTheme), [props.theme, outerTheme]);

  if (!props.children) {
    return null;
  }

  return <ThemeContext.Provider value={themeContext}>{props.children}</ThemeContext.Provider>;
}

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5559
We depend on components having unique IDs. We use componentId = \$\{name\}\$\{generateComponentId\} to ensure isolation between multiple runtimes on the page at once.

// SC_VERSION gives us isolation between multiple runtimes on the page at once
// this is improved further with use of the babel plugin "namespace" feature

const identifiers = {};

/* We depend on components having unique IDs */
function generateId(displayName?: string, parentComponentId?: string) {
  const name = typeof displayName !== 'string' ? 'sc' : escape(displayName);
  // Ensure that no displayName can lead to duplicate componentIds
  identifiers[name] = (identifiers[name] || 0) + 1;

  const componentId = `${name}-${generateComponentId(
    // SC_VERSION gives us isolation between multiple runtimes on the page at once
    // this is improved further with use of the babel plugin "namespace" feature
    SC_VERSION + name + identifiers[name]
  )}`;

  return parentComponentId ? `${parentComponentId}-${componentId}` : componentId;
}

function useResolvedAttrs<Config>(theme: any = EMPTY_OBJECT, props: Config, attrs: Attrs) {
  // NOTE: can't memoize this
  // returns [context, resolvedAttrs]
  // where resolvedAttrs is only the things injected by the attrs themselves
  const context = { ...props, theme };
  const resolvedAttrs = {};

  attrs.forEach(attrDef => {
    let resolvedAttrDef = attrDef;
    let key;

    if (isFunction(resolvedAttrDef)) {
      resolvedAttrDef = resolvedAttrDef(context);
    }

    /* eslint-disable guard-for-in */
    for (key in resolvedAttrDef) {
      context[key] = resolvedAttrs[key] =
        key === 'className'
          ? joinStrings(resolvedAttrs[key], resolvedAttrDef[key])
          : resolvedAttrDef[key];
    }
  });

  /* eslint-enable guard-for-in */

  return [context, resolvedAttrs];
}

function useInjectedStyle<T>(
  componentStyle: ComponentStyle,
  isStatic: boolean,
  resolvedAttrs: T,
  warnTooManyClasses?: $Call<typeof createWarnTooManyClasses, string, string>
) {
  const styleSheet = useStyleSheet();
  const stylis = useStylis();

  const className = isStatic
    ? componentStyle.generateAndInjectStyles(EMPTY_OBJECT, styleSheet, stylis)
    : componentStyle.generateAndInjectStyles(resolvedAttrs, styleSheet, stylis);

  // eslint-disable-next-line react-hooks/rules-of-hooks
  if (process.env.NODE_ENV !== 'production')
    useDebugValue(className);

  if (process.env.NODE_ENV !== 'production' && !isStatic &&
    warnTooManyClasses) {
    warnTooManyClasses(className);
  }

  return className;
}

function useStyledComponentImpl(
  forwardedComponent: IStyledComponent,
  props: Object,
  forwardedRef: Ref<any>,
  isStatic: boolean
) {
  const {
    attrs: componentAttrs,
    componentStyle,
    defaultProps,
    foldedComponentIds,
    shouldForwardProp,
    styledComponentId,
    target,
  } = forwardedComponent;

  // eslint-disable-next-line react-hooks/rules-of-hooks
  if (process.env.NODE_ENV !== 'production')
    useDebugValue(styledComponentId);

  // NOTE: the non-hooks version only subscribes to this when
  // !componentStyle.isStatic
  // but that'd be against the rules-of-hooks. We could be naughty and do it anyway as if
  // should be an immutable value, but behave for now:
  const theme = determineTheme(props,
    useContext(ThemeContext), defaultProps);

  const [context, attrs] = useResolvedAttrs(theme ||
    EMPTY_OBJECT, props, componentAttrs);

  const generatedClassName = useInjectedStyle(
    componentStyle,
    isStatic,
    context,
    process.env.NODE_ENV !== 'production' ?
      forwardedComponent.warnTooManyClasses : undefined
  );

  propsForElement.className = Array.prototype
    .concat(
      foldedComponentIds,
      styledComponentId,
      generatedClassName !== styledComponentId ? generatedClassName : null,
      props.className,
      attrs.className
    )
    .filter(Boolean)
    .join(' ');

  propsForElement.ref = forwardedRef;

  return
    createElement(target, propsForElement);
}

export default function createStyledComponent(

from '../utils/isFunction';
import isFunction from '../utils/isFunction';
import isStyledComponent from '../utils/isStyledComponent';
import isTag from '../utils/isTag';
import joinStrings from '../utils/joinStrings';
import merge from '../utils/mixinDeep';
import ComponentStyle from './ComponentStyle';
import { useStyleSheet, useStylis } from './StyleSheetManager';
import { ThemeContext } from './ThemeProvider';

const identifiers = {};

/* We depend on components having unique IDs */
function generateId(displayName?: string, parentComponentId?: string) {
  const name = typeof displayName !== 'string' ? 'sc' : escape(displayName);
  // Ensure that no displayName can lead to duplicate componentIds
  identifiers[name] = (identifiers[name] || 0) + 1;

  const componentId = `${name}-${generateComponentId(
    // SC_VERSION gives us isolation between multiple runtimes on the page at once
    // this is improved further with use of the babel plugin "namespace" feature
    SC_VERSION + name + identifiers[name]
  )}`;

  return parentComponentId ? `${parentComponentId}-${componentId}` : componentId;
}

function useResolvedAttrs<Config>(theme: any = EMPTY_OBJECT, props: Config, attrs: Attrs) {
  // NOTE: can't memoize this
  // returns [context, resolvedAttrs]
  // where resolvedAttrs is only the things injected by the attrs themselves
  const context = { ...props, theme };
  const resolvedAttrs = {};

  attrs.forEach(attrDef => {
    let resolvedAttrDef = attrDef;
    let key;

    if (isFunction(resolvedAttrDef)) {
      resolvedAttrDef = resolvedAttrDef(context);
    }

    /* eslint-disable guard-for-in */
    for (key in resolvedAttrDef) {
      context[key] = resolvedAttrs[key] =
        key === 'className'
          ? joinStrings(resolvedAttrs[key], resolvedAttrDef[key])
          : resolvedAttrDef[key];
    }
  });

  /* eslint-enable guard-for-in */

  return [context, resolvedAttrs];
}

function useInjectedStyle<T>(
  componentStyle: ComponentStyle,
  isStatic: boolean,
  resolvedAttrs: T,
  warnTooManyClasses?: $Call<typeof createWarnTooManyClasses, string, string>
) {
  const styleSheet = useStyleSheet();
  const stylis = useStylis();

  const className = isStatic
    ? componentStyle.generateAndInjectStyles(EMPTY_OBJECT, styleSheet, stylis)
    : componentStyle.generateAndInjectStyles(resolvedAttrs, styleSheet, stylis);

  // eslint-disable-next-line react-hooks/rules-of-hooks
  if (process.env.NODE_ENV !== 'production')
    useDebugValue(className);

  if (process.env.NODE_ENV !== 'production' && !isStatic &&
    warnTooManyClasses) {
    warnTooManyClasses(className);
  }

  return className;
}

function useStyledComponentImpl(
  forwardedComponent: IStyledComponent,
  props: Object,
  forwardedRef: Ref<any>,
  isStatic: boolean
) {
  const {
    attrs: componentAttrs,
    componentStyle,
    defaultProps,
    foldedComponentIds,
    shouldForwardProp,
    styledComponentId,
    target,
  } = forwardedComponent;

  // eslint-disable-next-line react-hooks/rules-of-hooks
  if (process.env.NODE_ENV !== 'production')
    useDebugValue(styledComponentId);

  // NOTE: the non-hooks version only subscribes to this when
  // !componentStyle.isStatic
  // but that'd be against the rules-of-hooks. We could be naughty and do it anyway as if
  // should be an immutable value, but behave for now:
  const theme = determineTheme(props,
    useContext(ThemeContext), defaultProps);

  const [context, attrs] = useResolvedAttrs(theme ||
    EMPTY_OBJECT, props, componentAttrs);

  const generatedClassName = useInjectedStyle(
    componentStyle,
    isStatic,
    context,
    process.env.NODE_ENV !== 'production' ?
      forwardedComponent.warnTooManyClasses : undefined
  );

  propsForElement.className = Array.prototype
    .concat(
      foldedComponentIds,
      styledComponentId,
      generatedClassName !== styledComponentId ? generatedClassName : null,
      props.className,
      attrs.className
    )
    .filter(Boolean)
    .join(' ');

  propsForElement.ref = forwardedRef;

  return
    createElement(target, propsForElement);
}

export default function createStyledComponent(


isStaticRules(rules);

    // pre-register the first instance to ensure global styles
    StyleSheet.registerId(this.componentId + 1);
  }

  createRules() {
    const rule = isStaticRules(rules) ? {} : styles;
    StyleSheet.registerId(this.componentId + 1);
    StyleSheet.insertRules(0, 1, rule);
  }

  // pre-register the first instance to ensure global styles
  StyleSheet.registerId(this.componentId + 1);

  // NOTE: Remove old styles, then inject the new ones
  this.removeStyles(instance, styleSheet);
  this.createStyles(instance, executionContext, styleSheet, stylis);
}

// @flow
import React, { useContext, useLayoutEffect, useRef } from 'react';
import { STATIC_EXECUTION_CONTEXT } from '../constants';
import GlobalStyle from '../models/GlobalStyle';
import { useStyleSheet, useStylis } from '../models/StyleSheetManager';
import { ThemeContext } from '../models/ThemeProvider';
import type { Interpolation } from '../types';
import checkDynamicCreation from '../utils/checkDynamicCreation';
import determineTheme from '../utils/determineTheme';
import generateComponentId from '../utils/generateComponentId';
import css from './css';

declare var __SERVER__: boolean;

type GlobalStyleComponentPropsType = Object;

export default function createGlobalStyle(
  strings: Array<string>,
  ...interpolations: Array<Interpolation>
) {
  const rules = css(strings, ...interpolations);
  const styledComponentId = `sc-global-${generateComponentId(JSON.stringify(rules))}`;
  const globalStyle = new GlobalStyle(rules, styledComponentId);

  if (process.env.NODE_ENV !== 'production') {
    checkDynamicCreation(styledComponentId);
  }

  function GlobalStyleComponent(props: GlobalStyleComponentPropsType) {
    const styleSheet = useStyleSheet();
    const stylis = useStylis();
    const theme = useContext(ThemeContext);
    const instanceRef = useRef(styleSheet.allocateGSInstance(styledComponentId));

    const instance = instanceRef.current;

    if (process.env.NODE_ENV !== 'production' && React.Children.count(props.children)) {
      // eslint-disable-next-line no-console
      console.warn(`The global style component ${styledComponentId} was given child JSX. createGlobalStyle does not render children.`);
    }

    if (process.env.NODE_ENV !== 'production' && rules.some(rule => typeof rule === 'string' && rule.indexOf('@import') !== -1)) {
      // eslint-disable-next-line no-console
      console.warn(`Please do not use @import CSS syntax in createGlobalStyle at this time, as the CSSOM APIs we use in production do not handle it well. Instead, we recommend using a library such as react-helmet to inject a typical <link> meta tag to the stylesheets, or simply embedding it manually in your index.html <head> section for a simpler app.`);
    }

    if (styleSheet.server) {
      renderStyles(instance, props, styleSheet, theme, stylis);
    }

    if (!__SERVER__) {
      // this conditional is fine because it is compiled away for the relevant builds during minification,
      // resulting in a single unguarded hook call
      // eslint-disable-next-line react-hooks/rules-of-hooks
      useLayoutEffect(() => {
        if (!styleSheet.server) {
          renderStyles(instance, props, styleSheet, theme, stylis);
          return () => globalStyle.removeStyles(instance, styleSheet);
        }
      }, [instance, props, styleSheet, theme, stylis]);
    }

    return null;
  }

  function renderStyles(instance, props, styleSheet, theme, stylis) {
    if (globalStyle.isStatic) {
      globalStyle.renderStyles(instance, STATIC_EXECUTION_CONTEXT, styleSheet, stylis);
    } else {
      const context = {
        ...props,
        theme: determineTheme(props, theme, GlobalStyleComponent.defaultProps),
      };
      globalStyle.renderStyles(instance, context, styleSheet, stylis);
    }
  }

  return React.memo(GlobalStyleComponent);
ReactNative, only on the web. To do animation in ReactNative please use Animated.

```javascript
import Animated from 'react-native'
```

### Animation Example

```javascript
const AnimatedLinear = Animated.interpolate

const colors = [0, 1, 2, 3] // 0-3 with linear animation

const colorAnim = Animated.sequence(colorAnim, { animation: Animated.timing(0, { toValue: 1 }) })
```

### Keyframes

```javascript
const keyframes = Animated.createAnimatableStyleSheet

// @flow
/* eslint-disable no-underscore-dangle */

export default class Keyframes {
  constructor(name) {
    this.name = name
    this.values = {} // keyframes that are defined by name
    this.frameCount = 0
    this.frameDuration = 0
    this.totalDuration = 0
    this.isRunning = false
    this.isPaused = false
    this.isStopped = false
    this.currentFrame = 0
    this.currentValue = 0
    this.currentTime = 0
  }

  static create(name) {
    const keyframes = new Keyframes(name)
    return keyframes
  }

  addFrame(frame) {
    this.values[name] = frame
    this.frameCount += 1
    this.frameDuration += frame.duration
    this.totalDuration += frame.duration
  }

  play() {
    if (this.isRunning || this.isPaused) {
      return
    }

    this.isRunning = true
    this.isPaused = false
    this.isStopped = false
    this.currentTime = 0
    this.currentFrame = 0
    this.currentValue = 0
    this.frameCount = 0
    this.frameDuration = 0
    this.totalDuration = 0

    if (this.values[name]) {
      this.addFrames(this.values[name])
    }

    this.animate()
  }

  stop() {
    if (this.isRunning) {
      this.isRunning = false
      this.isPaused = false
      this.isStopped = true
      this.currentTime = 0
      this.currentFrame = 0
      this.currentValue = 0
      this.frameCount = 0
      this.frameDuration = 0
      this.totalDuration = 0
      clearInterval(this.interval)
    }
  }

  pause() {
    if (this.isRunning || this.isPaused) {
      this.isPaused = true
      this.isRunning = false
    }
  }

  resume() {
    if (this.isPaused) {
      this.isRunning = true
      this.isPaused = false
    }
  }

  // Schedule animation function to run at set intervals
  // Returns the timer handle to cancel
  schedule() {
    if (this.isRunning || this.isPaused) {
      return
    }

    this.interval = setInterval(() => {
      this.animate()
    }, this.frameDuration) || 0
  }

  // Unschedule animation function
  unschedule() {
    clearInterval(this.interval)
    this.interval = null
  }

  animate() {
    if (this.isRunning || this.isPaused) {
      this.currentTime += 1
      this.currentFrame += 1
      this.currentValue = this.values[name].getFrame(this.currentTime)
      if (this.currentFrame >= this.frameCount) {
        this.isStopped = true
      }
    } else {
      this.isRunning = false
      this.isPaused = false
      this.isStopped = true
      this.currentTime = 0
      this.currentFrame = 0
      this.currentValue = 0
      this.frameCount = 0
      this.frameDuration = 0
      this.totalDuration = 0
      clearInterval(this.interval)
    }
  }

  // Get current frame
  getFrame() {
    return this.currentFrame
  }

  // Get current value
  getValue() {
    return this.currentValue
  }

  // Get current time
  getTime() {
    return this.currentTime
  }

  // Get frame count
  getFrameCount() {
    return this.frameCount
  }

  // Get total duration
  getTotalDuration() {
    return this.totalDuration
  }

  // Get frame duration
  getFrameDuration() {
    return this.frameDuration
  }

  // Get current animation state
  getAnimationState() {
    return this.isRunning ? 'running' : (this.isPaused ? 'paused' : 'stopped')
  }

  // Get current value
  getValue() {
    return this.currentValue
  }

  // Get current time
  getTime() {
    return this.currentTime
  }

  // Get frame count
  getFrameCount() {
    return this.frameCount
  }

  // Get total duration
  getTotalDuration() {
    return this.totalDuration
  }

  // Get frame duration
  getFrameDuration() {
    return this.frameDuration
  }

  // Get current animation state
  getAnimationState() {
    return this.isRunning ? 'running' : (this.isPaused ? 'paused' : 'stopped')
  }

  // Get current value
  getValue() {
    return this.currentValue
  }

  // Get current time
  getTime() {
    return this.currentTime
  }

  // Get frame count
  getFrameCount() {
    return this.frameCount
  }

  // Get total duration
  getTotalDuration() {
    return this.totalDuration
  }

  // Get frame duration
  getFrameDuration() {
    return this.frameDuration
  }

  // Get current animation state
  getAnimationState() {
    return this.isRunning ? 'running' : (this.isPaused ? 'paused' : 'stopped')
  }

  // Get current value
  getValue() {
    return this.currentValue
  }

  // Get current time
  getTime() {
    return this.currentTime
  }

  // Get frame count
  getFrameCount() {
    return this.frameCount
  }

  // Get total duration
  getTotalDuration() {
    return this.totalDuration
  }

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  getFrameDuration() {
    return this.frameDuration
  }

  // Get current animation state
  getAnimationState() {
    return this.isRunning ? 'running' : (this.isPaused ? 'paused' : 'stopped')
  }

  // Get current value
  getValue() {
    return this.currentValue
  }

  // Get current time
  getTime() {
    return this.currentTime
  }

  // Get frame count
  getFrameCount() {
    return this.frameCount
  }

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  getTotalDuration() {
    return this.totalDuration
  }

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  getFrameDuration() {
    return this.frameDuration
  }

  // Get current animation state
  getAnimationState() {
    return this.isRunning ? 'running' : (this.isPaused ? 'paused' : 'stopped')
  }

  // Get current value
  getValue() {
    return this.currentValue
  }

  // Get current time
  getTime() {
    return this.currentTime
  }

  // Get frame count
  getFrameCount() {
    return this.frameCount
  }

  // Get total duration
  getTotalDuration() {
    return this.totalDuration
  }

  // Get frame duration
  getFrameDuration() {
    return this.frameDuration
  }

  // Get current animation state
  getAnimationState() {
    return this.isRunning ? 'running' : (this.isPaused ? 'paused' : 'stopped')
  }

  // Get current value
  getValue() {
    return this.currentValue
  }

  // Get current time
  getTime() {
    return this.currentTime
  }

  // Get frame count
  getFrameCount() {
    return this.frameCount
  }

  // Get total duration
  getTotalDuration() {
    return this.totalDuration
  }

  // Get frame duration
  getFrameDuration() {
    return this.frameDuration
  }

  // Get current animation state
  getAnimationState() {
    return this.isRunning ? 'running' : (this.isPaused ? 'paused' : 'stopped')
  }

  // Get current value
  getValue() {
    return this.currentValue
  }

  // Get current time
  getTime() {
    return this.currentTime
  }

  // Get frame count
  getFrameCount() {
    return this.frameCount
  }

  // Get total duration
  getTotalDuration() {
    return this.totalDuration
  }

  // Get frame duration
  getFrameDuration() {
    return this.frameDuration
  }

  // Get current animation state
  getAnimationState() {
    return this.isRunning ? 'running' : (this.isPaused ? 'paused' : 'stopped')
  }

  // Get current value
  getValue() {
    return this.currentValue
  }

  // Get current time
  getTime() {
    return this.currentTime
  }

  // Get frame count
  getFrameCount() {
    return this.frameCount
  }

  // Get total duration
  getTotalDuration() {
    return this.totalDuration
  }

  // Get frame duration
  getFrameDuration() {
    return this.frameDuration
  }

  // Get current animation state
  getAnimationState() {
    return this.isRunning ? 'running' : (this.isPaused ? 'paused' : 'stopped')
  }

  // Get current value
  getValue() {
    return this.currentValue
  }

  // Get current time
hoistStatics(WithTheme, Component);

  WithTheme.displayName = `WithTheme(${getComponentName(Component)})`;
  return WithTheme;
};

export default useTheme;

/* Import singletons */
import { StyleSheet, masterSheet } from './models/StyleSheetManager';

/* Import components */
import ThemeProvider, { ThemeContext, ThemeConsumer } from './models/ThemeProvider';

/* Import Higher Order Components */
import withTheme from './hoc/withTheme';

/* Export everything */
export * from './secretInternals';
export {
  createGlobalStyle,
  css,
  isStyledComponent,
  keyframes,
  ServerStyleSheet,
  StyleSheetContext,
  StyleSheetConsumer,
};
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Found in path(s):
* /opt/cola/permits/1341833602_1654812146.0913105/0/styled-components-5-3-3-3-tgz/package/dist/styled-components.esm.js.map

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

/**
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 */

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*/
/**
mixin-deep; https://github.com/jonschlinkert/mixin-deep
Inlined such that it will be consistently transpiled to an IE-compatible syntax.

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* /opt/cola/permits/1341833602_1654812146.0913105/0/styled-components-5-3-3-3-tgz/package/primitives/dist/styled-components-primitives.cjs.js
* /opt/cola/permits/1341833602_1654812146.0913105/0/styled-components-5-3-3-3-tgz/package/native/dist/styled-components.native.cjs.js
* /opt/cola/permits/1341833602_1654812146.0913105/0/styled-components-5-3-3-3-tgz/package/primitives/dist/styled-components-primitives.esm.js
* /opt/cola/permits/1341833602_1654812146.0913105/0/styled-components-5-3-3-3-tgz/package/native/dist/styled-components-native.cjs.js

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import { GroupedTag, Tag } from './types';
import throwStyledError from '../utils/error';

/** Create a GroupedTag with an underlying Tag implementation */
export const makeGroupedTag = (tag: Tag): GroupedTag => {
  return new DefaultGroupedTag(tag);
};

const BASE_SIZE = 1 << 9;

class DefaultGroupedTag implements GroupedTag {
  groupSizes: Uint32Array;

  length: number;

  tag: Tag;

  constructor(tag: Tag) {
    this.groupSizes = new Uint32Array(BASE_SIZE);
    this.length = BASE_SIZE;
    this.tag = tag;
  }

  indexOfGroup(group: number): number {
    let index = 0;
    for (let i = 0; i < group; i++) {
      index += this.groupSizes[i];
    }

    return index;
  }

  insertRules(group: number, rules: string[]): void {
    if (group >= this.groupSizes.length) {
      const oldBuffer = this.groupSizes;
      const oldSize = oldBuffer.length;

      let newSize = oldSize;
      while (group >= newSize) {
        newSize <<= 1;
        if (newSize < 0) {
          throwStyledError(16, `${group}`);
        }
      }

      this.groupSizes = new Uint32Array(newSize);
      this.groupSizes.set(oldBuffer);
      this.length = newSize;
      for (let i = oldSize; i < newSize; i++) {
        if (newSize < 0) {
          throwStyledError(16, `${group}`);
        }
      }
    }
  }
}
let ruleIndex = this.indexOfGroup(group + 1);

if (ruleIndex == -1) return css;

const length = this.groupSizes[group];

for (let i = startRuleIndex; i < (ruleIndex + length); i++) {
  css += `$(${this.tag.getRule(i)})$[SPLITTER]`;
}

let ruleIndex++;

if (ruleIndex > css.length) return css;

const endRuleIndex = startRuleIndex + length;

for (let i = startRuleIndex; i < endRuleIndex; i++) {
  css += `$(${this.tag.getRule(i)})$[SPLITTER]`;
}

return css;

}
null

import SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION from './constants';
import getNonce from './utils/nonce';
import throwStyledError from './utils/error';

// Create a style element inside `target` or `<head>` after the last *

const element = (this.element = makeStyleTag(target));

// Avoid Edge bug where empty style elements don't create sheets

// Avoid IE11 quirk where cssText is inaccessible on some invalid rules

// @flow
import DISABLE_SPEEDY, IS_BROWSER from './constants';
import { SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';
import getNonce from './utils/nonce';
import throwStyledError from './utils/error';

const ELEMENT_TYPE = 1; /* Node.ELEMENT_TYPE */

/** Find last style element if any inside target */
const findLastStyleTag = (target: HTMLElement): void | HTMLStyleElement => {
  const { childNodes } = target;
  for (let i = childNodes.length; i >= 0; i--) {
    const child = (childNodes[i]: any); ?HTMLElement?
    if (child && child.nodeType === ELEMENT_TYPE &&
        child.hasAttribute(SC_ATTR)) {
      return (child: any): HTMLStyleElement;
    }
  }
  return undefined;
}

/** Create a CSSStyleSheet-like tag depending on the environment */
export const makeTag = ({ isServer, useCSSOMInjection, target }: SheetOptions): Tag => {
  if (isServer) {
    return new VirtualTag(target);
  } else if (useCSSOMInjection) {
    return new CSSOMTag(target);
  } else {
    return new TextTag(target);
  }
}

/** A Tag that emulates the CSSStyleSheet API but uses text nodes */
export class TextTag implements Tag {
  node: Node;

  length: number;

  constructor(target?: HTMLElement) {
    this.node = (document.createTextNode(''));
    this.length = 0;
  }

  insertRule(index: number, rule: string): boolean {
    if (index <= this.length) {
      this.node.insertData(rule);
      this.length++;
      return true;
    } else {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.node.deleteData(index);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.node[index].textContent;
    } else {
      return undefined;
    }
}

/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */
export class VirtualTag implements Tag {
  rules: string[];

  length: number;

  constructor(_target?: HTMLElement) {
    this.rules = [];
    this.length = 0;
  }

  insertRule(index: number, rule: string): boolean {
    if (index <= this.length) {
      this.rules.splice(index, 0, rule);
      this.length++;
      return true;
    } else {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.rules.splice(index, 1);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.rules[index].textContent;
    } else {
      return undefined;
    }
}

// @flow
import { SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';
import getNonce from './utils/nonce';
import throwStyledError from './utils/error';

const ELEMENT_TYPE = 1; /* Node.ELEMENT_TYPE */

/** Find last style element if any inside target */
const findLastStyleTag = (target: HTMLElement): void | HTMLStyleElement => {
  const { childNodes } = target;
  for (let i = childNodes.length; i >= 0; i--) {
    const child = (childNodes[i]: any); ?HTMLElement?
    if (child && child.nodeType === ELEMENT_TYPE &&
        child.hasAttribute(SC_ATTR)) {
      return (child: any): HTMLStyleElement;
    }
  }

  return undefined;
}

/** Create a style element inside `target` or `<head>` after the last */
const findLastStyleTag = (target: HTMLElement): void | HTMLStyleElement => {
  const { childNodes } = target;
  for (let i = childNodes.length; i >= 0; i--) {
    const child = (childNodes[i]: any); ?HTMLElement?
    if (child && child.nodeType === ELEMENT_TYPE &&
        child.hasAttribute(SC_ATTR)) {
      return (child: any): HTMLStyleElement;
    }
  }

  return undefined;
}

/** Create a style element inside `target` or `<head>` after the last */
const findLastStyleTag = (target: HTMLElement): void | HTMLStyleElement => {
  const { childNodes } = target;
  for (let i = childNodes.length; i >= 0; i--) {
    const child = (childNodes[i]: any); ?HTMLElement?
    if (child && child.nodeType === ELEMENT_TYPE &&
        child.hasAttribute(SC_ATTR)) {
      return (child: any): HTMLStyleElement;
    }
  }

  return undefined;
}

/** Create a style element inside `target` or `<head>` after the last */
const findLastStyleTag = (target: HTMLElement): void | HTMLStyleElement => {
  const { childNodes } = target;
  for (let i = childNodes.length; i >= 0; i--) {
    const child = (childNodes[i]: any); ?HTMLElement?
    if (child && child.nodeType === ELEMENT_TYPE &&
        child.hasAttribute(SC_ATTR)) {
      return (child: any): HTMLStyleElement;
    }
  }

  return undefined;
}

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  const { childNodes } = target;
  for (let i = childNodes.length; i >= 0; i--) {
    const child = (childNodes[i]: any); ?HTMLElement?
    if (child && child.nodeType === ELEMENT_TYPE &&
        child.hasAttribute(SC_ATTR)) {
      return (child: any): HTMLStyleElement;
    }
  }

  return undefined;
}

/** Create a style element inside `target` or `<head>` after the last */
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  const { childNodes } = target;
  for (let i = childNodes.length; i >= 0; i--) {
    const child = (childNodes[i]: any); ?HTMLElement?
    if (child && child.nodeType === ELEMENT_TYPE &&
        child.hasAttribute(SC_ATTR)) {
      return (child: any): HTMLStyleElement;
    }
  }

  return undefined;
}
'../utils/empties';

import { makeGroupedTag } from './GroupedTag';
import { getGroupForId } from './GroupIDAllocator';
import { outputSheet, rehydrateSheet } from './Rehydration';
import { makeTag } from './Tag';

let SHOULD_REHYDRATE = IS_BROWSER;

type SheetConstructorArgs = {
  isServer?: boolean,
  useCSSOMInjection?: boolean,
  target?: HTMLElement,
};

const defaultOptions: SheetOptions = {
  isServer: !IS_BROWSER,
  useCSSOMInjection: !DISABLE_SPEEDY,
};

/** Contains the main stylesheet logic for stringification and caching */
export default class StyleSheet implements Sheet {
  gs: GlobalStylesAllocationMap;

  names: NamesAllocationMap;

  options: SheetOptions;

  server: boolean;

  tag: void | GroupedTag;

  /** Register a group ID to give it an index */
  static registerId(id: string): number {
    return getGroupForId(id);
  }

  constructor(
    options: SheetConstructorArgs = EMPTY_OBJECT,
    globalStyles?: GlobalStylesAllocationMap = {},
    names?: NamesAllocationMap
  ) {
    this.options = {
      ...defaultOptions,
      ...options,
    };

    this.gs = globalStyles;
    this.names = new Map(names);
    this.server = !!options.isServer;

    if (!this.server && IS_BROWSER && SHOULD_REHYDRATE) {
      SHOULD_REHYDRATE = false;
      rehydrateSheet(this);
    }

    this.getTag().insertRules(getGroupForId(id), rules);
  }

  /** Lazily initialises a GroupedTag for when it's actually needed */
  getTag(): GroupedTag {
    return this.tag || (this.tag = makeGroupedTag(makeTag(this.options)));
  }

  /** Check whether a name is known for caching */
  hasNameForId(id: string, name: string): boolean {
    return this.names.has(id) && (this.names.get(id): any).has(name);
  }

  /** Mark a group's name as known for caching */
  registerName(id: string, name: string) {
    getGroupForId(id);

    if (!this.names.has(id)) {
      const groupNames = new Set();
      groupNames.add(name);
      this.names.set(id, groupNames);
    } else {
      (this.names.get(id): any).add(name);
    }

    if (this.server && & IS_BROWSER & SHOULD_REHYDRATE) {
      // We rehydrate only once and use the sheet that is created
      first
      if (this.server & IS_BROWSER & SHOULD_REHYDRATE) {
        return true;
      }
    }

    return false;
  }

  /** Insert new rules which also marks the name as known */
  insertRules(id: string, name: string, rules: string[]) {
    this.registerName(id, name);

    this.getTag().insertRules(getGroupForId(id), rules);
  }

  /** Clears all cached names for a given group ID */
  clearNames(id: string) {
    if (this.names.has(id)) {
      (this.names.get(id): any).clear();
    }
  }

  /** Clears all rules for a given group ID */
  clearRules(id: string) {
    this.getTag().clearGroup(getGroupForId(id));
    this.clearNames(id);
  }

  /** Clears the entire tag which deletes all rules but not its names */
  clearTag() {
    this.tag = undefined;
  }

  /** Outputs the current sheet as a CSS string with markers for SSR */
  toString(): string {
    return outputSheet(this);
  }
}

const AD_REPLACER_R = /(a)(d)/gi;

/* This is the "capacity" of our alphabet i.e. 2x26 for all letters plus their
 * capitalised
 * counterparts */
const charsLength = 52;

/* input a number, usually a hash and convert it to base-52 */
export default function generateAlphabeticName(code: number): string {
  let name = '';
  let x;

  for (x = Math.abs(code); x > charsLength; x = (x / charsLength) | 0) {
    name = getAlphabeticChar(x % charsLength) + name;
  }

  return (getAlphabeticChar(x % charsLength) + name).replace(AD_REPLACER_R, '$1-$2');
}

export const SEED = 5381;

export const phash = (h: number, x: string): number => {
  let i = x.length;

  while (i) {
    h = (h * 33) ^ x.charCodeAt(--i);
  }

  return h;
}

export const hash = (x: string): number => {
  return phash(SEED, x);
};

import isFunction from './isFunction';
import isStyledComponent from './isStyledComponent';
import type { RuleSet } from '../types';

export default function isStaticRules(rules: RuleSet): boolean {
  for (let i = 0; i < rules.length; i += 1) {
    const rule = rules[i];

    if (isFunction(rule) & isStyledComponent(rule)) {
      // functions are
allowed to be static if they're just being used to get the classname of a nested styled component

```javascript
    // @flow
import StyleSheet from '../sheet';
import type { RuleSet, Stringifier } from '../types';
import flatten from '../utils/flatten';
import { hash, phash } from '../utils/hash';
import isStaticRules from '../utils/isStaticRules';

const SEED = hash(SC_VERSION);

/**
 * ComponentStyle is all the CSS-specific stuff, not the React-specific stuff.
 * This registers the componentId, which ensures a consistent order of component's styles compared to others' if
 * for this component's styles are used in the same StyleSheet.registerId(componentId);
 */
export default class ComponentStyle {
  baseHash: number;
  baseStyle: ?ComponentStyle;
  componentId: string;
  isStatic: boolean;
  rules: RuleSet;

  staticRulesId: string;

  constructor(rules: RuleSet, componentId: string, baseStyle?: ComponentStyle) {
    this.rules = rules;
    this.staticRulesId = '';
    this.isStatic = process.env.NODE_ENV === 'production' &&
      (baseStyle === undefined || baseStyle.isStatic) &&
      isStaticRules(rules);
    this.componentId = componentId;

    this.baseHash = phash(SEED, componentId);

    this.baseStyle = baseStyle;

    StyleSheet.registerId(componentId);

    // SC_VERSION gives us isolation between multiple runtimes on the page at once
    // this is improved further with use of the babel plugin "namespace" feature
    this.isStatic = process.env.NODE_ENV === 'production' &&
      baseStyle.isStatic);

    // NOTE: This registers the componentId, which ensures a consistent order
    // for this component's styles compared to others' if
    // for this component's styles are used in the same StyleSheet.registerId(componentId);

    if (this.baseStyle)
      names.push(this.baseStyle.generateAndInjectStyles(executionContext, styleSheet, stylis));

    // force dynamic classnames if user-supplied stylis plugins are in use
    if (isStatic && !stylis.hash) {
      if (this.staticRulesId && styleSheet.hasNameForId(componentId, this.staticRulesId)) {
        names.push(this.staticRulesId);
      } else {
        const cssStatic = flatten(this.rules, executionContext, styleSheet, stylis).join('');
        const name = generateName(phash(this.baseHash, cssStatic) >>> 0);
        if (name)
          styleSheet.insertRules(componentId, name, cssStaticFormatted);
        names.push(name);
        this.staticRulesId = name;
      }
    } else {
      const { length } = this.rules;
      let dynamicHash = phash(this.baseHash, stylis.hash);
      let css = '';

      for (let i = 0; i < length; i++) {
        const partRule = this.rules[i];

        if (typeof partRule === 'string') {
          css += partRule;

          if (process.env.NODE_ENV !== 'production') dynamicHash = phash(dynamicHash, partRule + i);
        } else if (partRule) {
          const partString = Array.isArray(partRule) ? partRule.join('') : partRule;
          dynamicHash = phash(dynamicHash, partString + i);
          css += partString;
        }
      }

      if (css) {
        const name = generateName(dynamicHash) >>> 0;
        if (name)
          styleSheet.insertRules(componentId, name, cssFormatted);
        names.push(name);
      }
    }

    return names.join(' ');
  }
}
```

import Stylis from '@emotion/stylis';
import { type Stringifier } from '../types';
import { EMPTY_ARRAY, EMPTY_OBJECT } from './empties';
import throwStyledError from './error';
import { phash, SEED } from './hash';
import insertRulePlugin from './stylisPluginInsertRule';

const COMMENT_REGEX = /^\s*\/\/.*$/gm;
const COMPLEX_SELECTOR_PREFIX = [':', '[', '.', '#'];

type StylisInstanceConstructorArgs = {
  options?: Object,
  plugins?: Array<Function>,
};
When writing a style like

```
& + & {
  color: red;
}
```

The second

```javascript
ampersand should be a reference to the static component class. stylis
```n
* has no knowledge of static class so we

have to intelligently replace the base selector.

```javascript
const selfReferenceReplacementPlugin = (context, _, selectors) => {
  if (context === 2 && selectors.length && selectors[0].lastIndexOf(_selector) > 0) {
    // eslint-disable-next-line no-param-
    //reassign
    selectors[0] = selectors[0].replace(_selectorRegexp, selfReferenceReplacer);
  }
}
```

```javascript
stylis.use([...plugins, selfReferenceReplacementPlugin, parseRulesPlugin, returnRulesPlugin]);
```

```javascript
function stringifyRules(css, selector, prefix, componentId = '&') {
  const flatCSS = css.replace(COMMENT_REGEX, '');
  const cssStr = selector && prefix ? `${prefix} ${selector} { ${flatCSS}` : flatCSS;

  // stylis has no concept of state to be passed to plugins
  // but since JS is single-threaded, we
  // can rely on that to ensure
  // these properties stay in sync with the current stylis run
  // _componentId = componentId;
  // _selector = selector;
  // _selectorRegexp = new RegExp(`\\${_selector}\\b`, 'g');
  // _consecutiveSelfRefRegExp = new RegExp(`(\\${_selector}\\b){2,}`);

  return stylis(prefix || !selector ? '' : selector, cssStr);
}
```

```javascript
export default function insertRule({
  const delimiter = '/*|*/';
  const needle = `${delimiter}}`;

  function toSheet(block) {
    if (block) {
      try {
        insertRule(`${block}}`);
      } catch (e) {}
    }
  }

  return function ruleSheet(
    context,
    content,
    selectors,
    parents,
    line,
    column,
    length,
    ns,
    depth,
    at
  ) {
    switch (context) {
      // property
      case 1:
        // @import
        if (depth === 0 && content.charCodeAt(0) === 64) return insertRule(`${content};`), '';
        break;
      // selector
      case 2:
        if (ns === 0) return content + delimiter;
        break;
      // at-rule
      case 3:
        switch (ns) {
          // @font-face, @page
          case 102:
          case 112:
            return insertRule(selectors[0] + content), '';
          default:
            return content + (at === 0 ? delimiter : '');
        }
      case -2:
        content.split(needle).forEach(toSheet);
    }
}
```

```javascript
import React, { type Context, type Node, useContext, useEffect, useMemo, useState } from 'react';
import shallowequal from 'shallowequal';
import StyleSheet from '../sheet';
import type { Stringifier } from '../types';
import createStylisInstance from '../utils/stylis';

export const StyleSheetContext: Context<StyleSheet | void> = React.createContext();
export const StyleSheetConsumer = StyleSheetContext.Consumer;
export const StylisContext: Context<Stringifier | void> = React.createContext();
export const StylisConsumer = StylisContext.Consumer;

export const masterSheet: StyleSheet = new StyleSheet();
export const masterStylis: Stringifier = createStylisInstance();

export function useStyleSheet(): StyleSheet {
  return
```
useContext(StyleSheetContext) || masterSheet;

export function useStylis(): Stringifier {
  return
    useContext(StylisContext) || masterStylis;
}

export function useStyleManager(props: Props) {
  const
  [plugins, setPlugins] = useState(props.stylisPlugins);
  const contextStyleSheet = useContext(StyleSheetContext);

  const stylis = useMemo(() => {
    return
      createStylisInstance({
        options: { prefix: !props.disableVendorPrefixes },
        plugins,
      }),
  },
  [props.disableVendorPrefixes, plugins]);

  useEffect(() => {
    if (!shallowequal(plugins, props.stylisPlugins)) setPlugins(props.stylisPlugins);
  },
  [props.stylisPlugins]);

  return {
    StyleSheetContext.Provider: value
      <StyleSheetContext.Provider value={styleSheet}>
        <StylisContext.Provider value={stylis}>
          {process.env.NODE_ENV !== 'production'
            ? React.Children.only(props.children)
            : props.children}
        </StylisContext.Provider>
      </StyleSheetContext.Provider>
    }</StyleManager.Provider.value

</StylisContext.Provider>

@flow

/**
 * Inlined version of
 * https://github.com/facebook/fbjs/blob/master/packages/fbjs/src/core/hyphenateStyleName.js
 */

const
  uppercaseCheck = /([A-Z])/;
  uppercasePattern = /([A-Z])/g;
  msPattern = /^ms-/;
  const
  prefixAndLowerCase = (char: string): string => `-${char.toLowerCase()}`;

  /**
   * Hyphenates a camelcased CSS property name, for example:
   *
   *   > hyphenateStyleName('backgroundColor')
   *   < "background-color"
   *   > hyphenateStyleName('MozTransition')
   *   < "-moz-transition"
   *   > hyphenateStyleName('msTransition')
   *   < "-ms-transition"
   *
   * As Modernizr suggests
   * (http://modernizr.com/docs/#prefixed), an `ms` prefix is converted to `-ms-`.
   * A `moz` prefix is converted to `-moz-`.
   *
   * @param {string} string
   * @return {string}
   */
  export default function hyphenateStyleName(string: string): string {
    return
      uppercaseCheck.test(string)
        ? string
          .replace(uppercasePattern, prefixAndLowerCase)
          .replace(msPattern, '-ms-')
        : string;
  }

import { isElement } from 'react-is';
import getComponentName from './getComponentName';
import isFunction from './isFunction';
import isStatelessFunction from './isStatelessFunction';
import isPlainObject from './isPlainObject';
import isStyledComponent from './isStyledComponent';
import Keyframes from '../models/Keyframes';
import hyphenate from './hyphenateStyleName';
import addUnitIfNeeded from './addUnitIfNeeded';
import { type Stringifier } from '../types';

/**
 * It's falsish not falsy because 0 is allowed.
 */
const isFalsish = chunk => chunk === undefined || chunk === null || chunk === false || chunk === '';

export const objToCssArray = (obj: Object, prevKey?: string): Array<string | Function> => {
  const rules = [];

  for (const key in obj) {
    if (!obj.hasOwnProperty(key) || isFalsish(obj[key])) continue;

    if (Array.isArray(obj[key]) && obj[key].isCss) {
      rules.push(`${hyphenate(key)}:`, obj[key], ';');
    } else if (isPlainObject(obj[key])) {
      rules.push(...objToCssArray(obj[key], key));
    } else {
      rules.push(`${hyphenate(key)}:`, addUnitIfNeeded(key, obj[key]), ';');
    }
  }

  return prevKey ? `{${prevKey}:`, ...rules, '};` : rules;
};

export default function flatten(
  chunk: any,
  executionContext: ?Object,
  styleSheet: ?Object,
  stylisInstance: ?Stringifier
): any {
  if (Array.isArray(chunk)) {
    const ruleSet = [];

    for (let i = 0, len = chunk.length, result; i < len; i += 1) {
      result = flatten(chunk[i], executionContext, styleSheet, stylisInstance);
      if (result !== '')
        else if (Array.isArray(result)) ruleSet.push(...result);
    }

    return result;
  }

  if (isFunction(chunk)) {
    return
      chunk
        .call(chunk, executionContext)
        .toString();
  }

  if (isStatelessFunction(chunk)) {
    return chunk;
  }

  if (chunk.isCss) {
    return
      chunk
        .toString();
  }

  if (chunk.isKeyframes) {
    return
        chunk
          .toString();
  }

  if (chunk.isMemo) {
    return
        chunk
          .toString();
  }

  if (chunk.isStyledComponent) {
    return
        chunk
          .toString();
  }

  if (chunk.isStyleSheet) {
    return
        chunk
          .toString();
  }

  if (chunk.isStyledContext) {
    return
        chunk
          .toString();
  }

  return chunk.toString();
}
ruleSet.push(result);

if (isFalsish(chunk)) {
  return ";";
}
/* Handle other components */
if (isStyledComponent(chunk)) {
  return ":{$(chunk.styledComponentId)}";
}
/* Either execute or defer the function */
if (isFunction(chunk)) {
  if (isStatelessFunction(chunk) && executionContext)
    result = chunk(executionContext);
  else if (isFalsish(chunk)) {
    return ""
  }
  /* Handle other components */
  if (isStyledComponent(chunk)) {
    return chunk.getTagName(stylisInstance);
  } else return chunk;
}
/* Handle objects */
if (chunk instanceof Keyframes) {
  return chunk.getName(stylisInstance);
}
else return chunk;
/* If chunk is instanceof Keyframes */
if (styleSheet) {
  return chunk.inject(styleSheet, stylisInstance);
}
/* Either execute or defer the function */
if (isFunction(chunk)) {
  if (isStatelessFunction(test: any): boolean {
    return (
      typeof test === 'function'
      && !(
        test.prototype
        && test.prototype.isReactComponent
      )
    );
  }
  /* Taken from https://github.com/facebook/react/blob/b87aabdf1eb7461e7331abb3601d9d6eb27544bc/packages/react-dom/src/shared/dangerousStyleValue.js
  export default function addUnitIfNeeded(name: string, value: any): any {
    // https://github.com/amilajack/eslint-plugin-flowtype-errors/issues/133
    // $FlowFixMe
    if (value == null || typeof value === 'boolean' || value === '') {
      return '';
    }
    if (typeof value === 'number' && value !== 0 && !(name in unitless)) {
      return `${value}px`;
    }
    return String(value).trim();
  }
  // @flow
  import interleave from '../utils/interleave';
  import isPlainObject from '../utils/isPlainObject';
  import { EMPTY_ARRAY } from '../utils/empties';
  import isFunction from '../utils/isFunction';
  import flatten from '../utils/flatten';
  import type { Interpolation, RuleSet, Styles } from '../types';

  /**
   * Used when flattening object styles to determine if we should expand an array of styles.
   */
  const addTag = arg => {
    if (Array.isArray(arg)) {
      // eslint-disable-next-line no-param-reassign
      arg.isCss = true;
    }
    return arg;
  };
  export default function css(styles: Styles, ...interpolations: Array<Interpolation>) {
    if (isFunction(styles) || isPlainObject(styles)) {
      return addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));
    }
    if (interpolations.length === 0 && styles.length === 1 && typeof styles[0] === 'string') {
      return styles;
    }
    return addTag(flatten(interleave(styles, interpolations)));
  }
  // @flow
  import { useRef } from 'react';
  const invalidHookCallRe = /invalid hook call/i;
  const seen = new Set();
  export const checkDynamicCreation = (displayName: string, componentId?: string) => {
    if (process.env.NODE_ENV !== 'production') {
      const parsedIdString = componentId ? ` with the id of "${componentId}"` : '';
      const message = `The component ${displayName}${parsedIdString} has been created dynamically.\nYou may see this warning because you've called styled inside another component.\nTo resolve this only create new StyledComponents outside of any render method and function component.`;

      try {
        let didNotCallInvalidHook = true
        /* $FlowIgnore[cannot-write] */
        console.error = (consoleErrorMessage, ...consoleErrorArgs) => { // eslint-disable-line no-console
          if (invalidHookCallRe.test(consoleErrorMessage)) {
            didNotCallInvalidHook = false
            // This shouldn't happen, but resets `warningSeen` if we had this error happen intermittently
            seen.delete(message); // eslint-disable-next-line react-hooks/rules-of-hooks
            useRef();
            if (didNotCallInvalidHook) {
              console.error = (consoleErrorMessage, ...consoleErrorArgs) => {
                // eslint-disable-next-line react-hooks/rules-of-hooks
                useRef();
              };
            }
          } else {
            originalConsoleError(consoleErrorMessage, ...consoleErrorArgs);
            return false;
          }
        }
        console.error(message, ...consoleErrorArgs);
        return true;
      }
    }
  }
  React 17 and earlier throw an error if we use console.error in const originalConsoleError = console.error; else if (eslint-disable-line no-console) try {
    let didNotCallInvalidHook = true
    /* FlowIgnore[cannot-write] */
    console.error = (consoleErrorMessage, ...consoleErrorArgs) => {
      // eslint-disable-next-line react-hooks/rules-of-hooks
      useRef();
      if (didNotCallInvalidHook && !seen.has(message)) {
        // eslint-disable-next-line react-hooks/rules-of-hooks
        useRef();
        console.warn(message, ...consoleErrorArgs);
        catch (error) {
          // The error here is expected, since we're expecting anything that uses `checkDynamicCreation` to
          // be called outside of a React component.
          if (invalidHookCallRe.test(consoleErrorMessage)) {
            This shouldn't happen, but resets
          }
        }
      }  // This shouldn't happen, but resets
  }
  Open Source Used In Cisco Telemetry Broker On Prem 1.3.1.5582
`warningSeen` if we had this error happen intermittently

```javascript
    seen.delete(message);
  }
}
```

Finally, we **will** need to add the **actual** error that we want to

```javascript
*> FlowIgnore[cannot-write] /*
    console.error = originalConsoleError; // eslint-disable-line no-console
*/

```

```javascript
}
```
mergeTheme(props.theme, outerTheme), [n  props.theme,\n  outerTheme,\n ];\n  if (!props.children) {\n  return null;\n  }\n  return <ThemeContext.Provider
value={themeContext}>\n{props.children}</ThemeContext.Provider>;

  if (!props.children) {
    return null;
  }

  return <ThemeContext.Provider
value={themeContext}>{props.children}</ThemeContext.Provider>;

import validAttr from '@emotion/is-prop-valid';
import hoist from 'hoist-non-react-statics';
import React, { createElement, type Ref, useContext, useDebugValue } from 'react';
import { SC_VERSION } from '../constants';
import type {
  Attrs,
  IStyledComponent,
  IStyledStatics,
  RuleSet,
  ShouldForwardProp,
  Target,
} from './types';
import { checkDynamicCreation } from './utils/checkDynamicCreation';
import createWarnTooManyClasses from './utils/createWarnTooManyClasses';
import determineTheme from './utils/determineTheme';
import EMPTY_ARRAY, EMPTY_OBJECT from './utils/empties';
import escape from './utils/escape';
import generateComponentId from './utils/generateComponentId';
import generateDisplayName from './utils/generateDisplayName';
import getComponentName from './utils/getComponentName';
import isFunction from './utils/isFunction';
import isStyledComponent from './utils/isStyledComponent';
import isTag from './utils/isTag';
import joinStrings from './utils/joinStrings';
import merge from './utils/mixinDeep';
import ComponentStyle from './ComponentStyle';
import { useStyleSheet, useStylis } from './StyleSheetManager';
import { ThemeContext } from './ThemeProvider';

const identifiers = {};

/* We depend on components having unique IDs */
function generateId(displayName?: string, parentComponentId?: string) {
  const name = typeof displayName !== 'string' ? 'sc' : escape(displayName);
  // Ensure that no displayName can lead to duplicate componentIds
  identifiers[name] = (identifiers[name] || 0) + 1;

  const componentId = `$${name}-${generateComponentId(SC_VERSION + name + identifiers[name])}`;

  return parentComponentId ? `${parentComponentId}-${componentId}` : componentId;
}

function useResolvedAttrs<Config>(theme: any = EMPTY_OBJECT, props: Config, attrs: Attrs) {
  // NOTE: can't memoize this
  // returns [context, resolvedAttrs]
  // where resolvedAttrs is only the things injected by the attrs themselves
  const context = { ...props, theme };
  const resolvedAttrs = {};

  attrs.forEach(attrDef => {
    let resolvedAttrDef = attrDef;
    let key;

    if (isFunction(resolvedAttrDef)) {
      resolvedAttrDef = resolvedAttrDef(context);
    }

    /* eslint-disable guard-for-in */
    for (key in resolvedAttrDef) {
      context[key] = resolvedAttrs[key] =
        key === 'className'
          ? joinStrings(resolvedAttrs[key], resolvedAttrDef[key])
          : resolvedAttrDef[key];
    }
    /* eslint-enable guard-for-in */
  });

  return [context, resolvedAttrs];
}

function useInjectedStyle<T>(
  componentStyle: ComponentStyle,
  isStatic: boolean,
  resolvedAttrs: T,
  warnTooManyClasses?: $Call<typeof createWarnTooManyClasses, string, string>
) {
  const styleSheet = useStyleSheet();
  const stylis = useStylis();

  const className = isStatic
    ? componentStyle.generateAndInjectStyles(EMPTY_OBJECT, styleSheet, stylis)
    : componentStyle.generateAndInjectStyles(resolvedAttrs, styleSheet, stylis);

  if (process.env.NODE_ENV !== 'production')
    useDebugValue(className);

  if (process.env.NODE_ENV !== 'production' && !isStatic &&
    warnTooManyClasses) {
    warnTooManyClasses(className);
  }

  return className;
}

function useStyledComponentImpl(
  forwardedComponent: IStyledComponent,
  props: Object,
  forwardedRef: Ref<any>,
  isStatic: boolean
) {
  const {
    attrs: componentAttrs,
    componentStyle,
    defaultProps,
    foldedComponentIds,
    shouldForwardProp,
    styledComponentId,
    target,
  } = forwardedComponent;

  if (process.env.NODE_ENV !== 'production')
    useDebugValue(styledComponentId);

  const theme = determineTheme(props, useContext(ThemeContext), defaultProps);

  const [context, attrs] = useResolvedAttrs(theme || EMPTY_OBJECT, props, componentAttrs);

  const generatedClassName = useInjectedStyle(
    componentStyle,
    isStatic,
    context,
    process.env.NODE_ENV !== 'production' ? forwardedComponent.warnTooManyClasses : undefined
  );

  const elementToBeCreated: Target = attrs.$as || props.$as || attrs.as || props.as || target;

  const refToForward = forwardedRef;

  const elementToBeCreated: Target = attrs.$as || props.$as || attrs.as || props.as || target;
  const isTargetTag =...
isTag(elementToBeCreated); const computedProps = attrs !== props ? { ...props, ...attrs } : props;

const propsForElement = {};

if (key[0] === '$' || key === 'as') continue;
else if (key === 'forwardedAs') { propsForElement.as = computedProps[key]; }
else if (shouldForwardProp) shouldForwardProp(key, validAttr, elementToBeCreated);

isTargetTag ? validAttr(key) : true }) { // Don't pass through non HTML tags through to HTML elements propsForElement[key] = computedProps[key]; }
}

if (props.style && attrs.style !== props.style) {
  propsForElement.style = { ...props.style, ...attrs.style };
}

propsForElement.className = Array.prototype.concat(foldedComponentIds, styledComponentId, generatedClassName !== styledComponentId ? generatedClassName : null, props.className, attrs.className)

.filter(Boolean)
  .join(' ');

propsForElement.ref = refToForward;

createElement(elementToBeCreated, propsForElement);

export default function createStyledComponent(
  target: $PropertyType<IStyledComponent, 'target'>,
  options: {
    attrs?: Attrs,
    componentId: string,
    displayName?: string,
    parentComponentId?: string,
    shouldForwardProp?: ShouldForwardProp,
  },
  rules: RuleSet
) {
  const isTargetStyledComp = isStyledComponent(target);
  const isCompositeComponent = !isTag(target);

  const {
    attrs = EMPTY_ARRAY,
    componentId = generateId(options.displayName, options.parentComponentId),
    displayName = generateDisplayName(target),
  } = options;

  const styledComponentId = options.displayName && options.componentId
    ? `${escape(options.displayName)}-${options.componentId}`
    : options.componentId || componentId;

  // fold the underlying StyledComponent attrs up (implicit extend)
  const finalAttrs = isTargetStyledComp && ((target: any): IStyledComponent).attrs
    : attrs;

  if (isTargetStyledComp && target.shouldForwardProp) {
    if (options.shouldForwardProp) {
      // compose nested shouldForwardProp calls
      shouldForwardProp = (prop, filterFn, elementToBeCreated) =>
          prop,
          filterFn
        ) &&
        ((options.shouldForwardProp: any):

          (prop, filterFn, elementToBeCreated) =>
            ShouldForwardProp(prop, filterFn, elementToBeCreated));
    } else {
      // eslint-disable-next-line prefer-destructuring
      shouldForwardProp = (prop, filterFn, elementToBeCreated) =>
        ShouldForwardProp(prop, filterFn, elementToBeCreated);
    }
  }

  WrappedStyledComponent = ((React.forwardRef(forwardRef): any): IStyledComponent);

  WrappedStyledComponent.attrs = finalAttrs;
  WrappedStyledComponent.componentStyle = componentStyle;
  WrappedStyledComponent.displayName = displayName;
  WrappedStyledComponent.foldedComponentIds = isTargetStyledComp
    : EMPTY_ARRAY;

  WrappedStyledComponent.styledComponentId = styledComponentId;

  WrappedStyledComponent.display = displayName;

  WrappedStyledComponent.shouldForwardProp = shouldForwardProp;

  WrappedStyledComponent.target = isTargetStyledComp
    : target;

  WrappedStyledComponent.withComponent = function withComponent(tag: Target) {
    const { componentId: previousComponentId, ...optionsToCopy } = options;
    const newComponentId = previousComponentId
      ? previousComponentId
      : previousComponentId
    ? isTag(tag) ? tag : escape(getComponentName(tag))
    : null;

    const newOptions = {
      ...optionsToCopy,
      attrs: finalAttrs,
    };

    return WrappedStyledComponent.withComponent(tag, newOptions,
      previousComponentId, newComponentId);
isValidElementType(tag))
  {
    return throwStyledError(1, String(tag));
  }

  /* This is callable directly as a
   * template function */
  // $FlowFixMe: Not typed to avoid destructuring arguments
  const templateFunction = (...args) =>
    componentConstructor(tag, options, css(...args));

  /* If config methods are called, wrap up a new
   * template function and merge options */
  templateFunction.withConfig = config =>
    constructWithOptions(componentConstructor, tag, {
      ...options, attrs: Array.prototype.concat(options.attrs, attrs).
    });

  /* Modify/inject new props at runtime */
  templateFunction.attrs = attrs =>
    constructWithOptions(componentConstructor, tag, {
      ...options,
      attrs: Array.prototype.concat(options.attrs, attrs).filter(Boolean),
    });

  return templateFunction;
}

/* eslint-disable no-underscore-dangle */
import React from 'react';
import { IS_BROWSER, SC_ATTR, SC_ATTR_VERSION, SC_VERSION } from '../constants';
import throwStyledError from '../utils/error';
import getNonce from '../utils/nonce';
import StyleSheet from '../sheet';
import StyleSheetManager from './StyleSheetManager';

declare var __SERVER__: boolean;

export default class ServerStyleSheet {
  isStreaming: boolean;

  instance: StyleSheet;

  sealed: boolean;

  constructor() {
    this.instance = new StyleSheet({ isServer: true });
    this.sealed = false;
  }

  _emitSheetCSS = (): string => {
    const css = this.instance.toString();
    if (!css) return '';

    const nonce = getNonce();
    const attrs = [nonce && `nonce="${nonce}"`, `${SC_ATTR}="true"`,
      `${SC_ATTR_VERSION}="${SC_VERSION}"`];
    const htmlAttr = attrs.filter(Boolean).join(' ');

    return `<style ${htmlAttr}>${css}</style>`;
  };

  collectStyles(children: any) {
    if (this.sealed) {
      return throwStyledError(2);
    }

    return <StyleSheetManager sheet={this.instance}>{children}</StyleSheetManager>;
  }

  getStyleTags = (): string => {
    if (this.sealed) {
      return throwStyledError(2);
    }

    return this._emitSheetCSS();
  };

  getStyleElement = () => {
    if (this.sealed) {
      return throwStyledError(2);
    }

    const props = {
      [SC_ATTR]: '',
      [SC_ATTR_VERSION]: SC_VERSION,
      dangerouslySetInnerHTML: {
        __html: this.instance.toString(),
      },
    };

    const nonce = getNonce();
    if (nonce) {
      (props: any).nonce = nonce;
    }

    // v4 returned an array for this fn, so we'll do the same for v5 for backward compat
    return [<style {...props} key="sc-0-0" />
      if (__SERVER__) {
        this.seal();

        // eslint-disable-next-line global-require
        const { Readable, Transform } = require('stream');
        const stylesheetManager = new Transform({
          transform: function appendStyleChunks(chunk, /* encoding */ encoding, /* callback */ callback) {
            // Get the chunk and retrieve the sheet's CSS as an HTML chunk
            // then reset its rules so we get only new ones for the next chunk
            const renderedHtml = chunk.toString();

            // prepend style html to chunk, unless the start of the chunk is
            // closing tag in which case append right after that
            if (CLOSING_TAG_R.test(renderedHtml))
              return renderedHtml;

            return `<style ${htmlAttr}>${css}</style>`;
          },
        });
        stylesheetManager.on('data', (chunk) =>
          stylesheetManager.push(chunk.toString()));
        stylesheetManager.on('error', (err) =>
          stylesheetManager.push(`<style ${htmlAttr}>${css}</style>`));
      }
      return stylesheetManager._emitSheetCSS();
    }
  };

  return this._emitSheetCSS();
}

/* eslint-disable no-underscore-dangle */
import React from 'react';
import { IS_BROWSER, SC_ATTR, SC_ATTR_VERSION, SC_VERSION } from '../constants';
import throwStyledError from '../utils/error';
import getNonce from '../utils/nonce';
import StyleSheet from '../sheet';
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export default class ServerStyleSheet {
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    const attrs = [nonce && `nonce="${nonce}"`, `${SC_ATTR}="true"`,
      `${SC_ATTR_VERSION}="${SC_VERSION}"`];
    const htmlAttr = attrs.filter(Boolean).join(' ');

    return `<style ${htmlAttr}>${css}</style>`;
  };

  collectStyles(children: any) {
    if (this.sealed) {
      return throwStyledError(2);
    }

    return <StyleSheetManager sheet={this.instance}>{children}</StyleSheetManager>;
  }

  getStyleTags = (): string => {
    if (this.sealed) {
      return throwStyledError(2);
    }

    return this._emitSheetCSS();
  };

  getStyleElement = () => {
    if (this.sealed) {
      return throwStyledError(2);
    }

    const props = {
      [SC_ATTR]: '',
      [SC_ATTR_VERSION]: SC_VERSION,
      dangerouslySetInnerHTML: {
        __html: this.instance.toString(),
      },
    };

    const nonce = getNonce();
    if (nonce) {
      (props: any).nonce = nonce;
    }

    // v4 returned an array for this fn, so we'll do the same for v5 for backward compat
    return [<style {...props} key="sc-0-0" />
      if (__SERVER__) {
        this.seal();

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            const renderedHtml = chunk.toString();

            // prepend style html to chunk, unless the start of the chunk is
            // closing tag in which case append right after that
            if (CLOSING_TAG_R.test(renderedHtml))
              return renderedHtml;

            return `<style ${htmlAttr}>${css}</style>`;
          },
        });
        stylesheetManager.on('data', (chunk) =>
          stylesheetManager.push(chunk.toString()));
        stylesheetManager.on('error', (err) =>
          stylesheetManager.push(`<style ${htmlAttr}>${css}</style>`));
      }
      return stylesheetManager._emitSheetCSS();
    }
  };

  return this._emitSheetCSS();
}
```javascript
disable-next-line no-console
console.warn('Please do not use @import CSS syntax in createGlobalStyle at this time, as the CSSOM APIs we use in production do not handle it well. Instead, we recommend using a library such as react-helmet to inject a typical <link> meta tag to the stylesheet, or simply embedding it manually in your index.html <head> section for a simpler app.'
); } } return (instance, styleSheet, theme, stylis) => { globalStyle.insertRules(styleSheet); [instance, props, styleSheet, theme, stylis] = [instance, props, styleSheet, theme, stylis]; return null; }

console.warn(`Please do not use @import CSS syntax in createGlobalStyle at this time, as the CSSOM APIs we use in production do not handle it well. Instead, we recommend using a library such as react-helmet to inject a typical <link> meta tag to the stylesheet, or simply embedding it manually in your index.html <head> section for a simpler app.`);

renderStyles(instance, props, styleSheet, theme, stylis); if (process.env.NODE_ENV !== 'production' && typeof navigator !== 'undefined' && navigator.product === 'ReactNative') {
  // eslint-disable-next-line no-console
  console.warn(`
  In Future use react-native-web-stylesheet
`);
}

/* Warning if you've used keyframes on React Native */
if (process.env.NODE_ENV !== 'production' && typeof navigator !== 'undefined' && navigator.product === 'ReactNative') {
  // eslint-disable-next-line no-console
  console.warn(`
  `keyframes` cannot be used on ReactNative, only on the web. To do animation in ReactNative please use Animated.`);
}

// NOTE: this would be the correct signature:
// export default <Config: { theme?: any }, Instance>(
//  Component: AbstractComponent<Config, Instance>
// ): AbstractComponent<$Diff<Config, { theme?: any }>, Instance>
//
// but the old build system tooling doesn't support the syntax

const defaultProps = determineTheme(props, theme, GlobalStyleComponent.defaultProps);

const theme = useContext(ThemeContext);
const themeProp = determineTheme(props, theme, defaultProps);

if (process.env.NODE_ENV !== 'production' && themeProp === undefined) {
  // eslint-disable-next-line no-console
  console.warn(`
  You are not using a ThemeProvider nor passing a theme prop or a theme in defaultProps in component class
  `);
}

// You are not using a ThemeProvider nor passing a theme prop or a theme in defaultProps in component class
```

Found in path(s):
* /opt/cola/permits/1341833602_1654812146.0913105/0/styled-components-5-3-3-3-tgz/package/dist/styled-components-browser.cjs.js.map

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

["version":3,"file":"styled-components.min.js","sources":[]]
c, e, h).replace(':fill-available', ':stretch') : a.replace(b, '-webkit-' + b) + a.replace(b, '-moz-' + b.replace('fill-', '')) +
a;\n
break;\n\n
case 962:\n
if (a = '-webkit-' + a + (102 === a.charCodeAt(5) ? '-ms-' + a : '') + a, 211
=== e + h && 105 === a.charCodeAt(13) && 0 < a.indexOf('transform', 10)) return a.substring(0, a.indexOf(';', 27)
+ 1).replace(ma, '$1-webkit-$2') + a;\n }\n\n return a;\n }\n\n function L(d, c) {\n var e = d.indexOf(1 === c ?
':' : '{'),\n
h = d.substring(0, 3 !== c ? e : 10);\n e = d.substring(e + 1, d.length - 1);\n return R(2 !== c ? h :
h.replace(na, '$1'), e, c);\n }\n\n function ea(d, c) {\n var e = P(c, c.charCodeAt(0), c.charCodeAt(1),
c.charCodeAt(2));\n return e !== c + ';' ? e.replace(oa, ' or ($1)').substring(4) : '(' + c + ')';\n }\n\n function H(d, c,
e, h, a, m, b, v, n, q) {\n for (var g = 0, x = c, w; g < A; ++g) {\n
switch (w = S[g].call(B, d, x, e, h, a, m, b, v, n,
q)) {\n
case void 0:\n
case !1:\n
case !0:\n
case null:\n
break;\n\n
default:\n
x = w;\n
}\n }\n\n if (x !== c) return x;\n }\n\n function T(d) {\n switch (d) {\n
case void 0:\n
case null:\n
A = S.length = 0;\n
break;\n\n
default:\n
if ('function' === typeof d) S[A++] = d;else if ('object' ===
typeof d) for (var c = 0, e = d.length; c < e; ++c) {\n
T(d[c]);\n
} else Y = !!d | 0;\n }\n\n return T;\n
}\n\n function U(d) {\n d = d.prefix;\n void 0 !== d && (R = null, d ? 'function' !== typeof d ? w = 1 : (w = 2, R
= d) : w = 0);\n return U;\n }\n\n function B(d, c) {\n var e = d;\n 33 > e.charCodeAt(0) && (e = e.trim());\n
V = e;\n e = [V];\n\n if (0 < A) {\n
var h = H(-1, c, e, e, D, z, 0, 0, 0, 0);\n
void 0 !== h && 'string' ===
typeof h && (c = h);\n }\n\n var a = M(O, e, c, 0, 0);\n 0 < A && (h = H(-2, a, e, e, D, z, a.length, 0, 0, 0),
void 0 !== h && (a = h));\n V = '';\n E = 0;\n z = D = 1;\n return a;\n }\n\n var ca = /^\\0+/g,\n
N=
/[\\0\\r\\f]/g,\n
aa = /: */g,\n
ka = /zoo|gra/,\n
ma = /([,: ])(transform)/g,\n
ia = /,\\r+?/g,\n
F=
/([\\t\\r\\n ])*\\f?&/g,\n
fa = /@(k\\w+)\\s*(\\S*)\\s*/,\n
Q = /::(place)/g,\n
ha = /:(read-only)/g,\n
G=
/[svh]\\w+-[tblr]{2}/,\n
da = /\\(\\s*(.*)\\s*\\)/g,\n
oa = /([\\s\\S]*?);/g,\n
ba = /-self|flex-/g,\n
na =
/[^]*?(:[rp][el]a[\\w-]+)[^]*/,\n
la = /stretch|:\\s*\\w+\\-(?:conte|avail)/,\n
ja = /([^-])(image-set\\()/,\n
z=
1,\n
D = 1,\n
E = 0,\n
w = 1,\n O = [],\n
S = [],\n
A = 0,\n
R = null,\n
Y = 0,\n
V = '';\n
B.use = T;\n B.set = U;\n void 0 !== W && U(W);\n return B;\n}\n\nexport default stylis_min;\n","import Stylis
from '@emotion/stylis';\nimport { type Stringifier } from '../types';\nimport { EMPTY_ARRAY, EMPTY_OBJECT
} from './empties';\nimport throwStyledError from './error';\nimport { phash, SEED } from './hash';\nimport
insertRulePlugin from './stylisPluginInsertRule';\n\nconst COMMENT_REGEX = /^\\s*\\/\\/.*$/gm;\nconst
COMPLEX_SELECTOR_PREFIX = [':', '[', '.', '#'];\n\ntype StylisInstanceConstructorArgs = {\n options?:
Object,\n plugins?: Array<Function>,\n};\n\nexport default function createStylisInstance({\n options =
EMPTY_OBJECT,\n plugins = EMPTY_ARRAY,\n}: StylisInstanceConstructorArgs = EMPTY_OBJECT) {\n
const stylis = new Stylis(options);\n\n // Wrap `insertRulePlugin to build a list of rules,\n // and then make our own
plugin to return the rules. This\n // makes it easier to hook into the existing SSR architecture\n\n let parsingRules =
[];\n\n // eslint-disable-next-line consistent-return\n const returnRulesPlugin = context => {\n if (context === -2)
{\n
const parsedRules = parsingRules;\n
parsingRules = [];\n
return parsedRules;\n }\n };\n\n const
parseRulesPlugin = insertRulePlugin(rule => {\n parsingRules.push(rule);\n });\n\n let _componentId: string;\n
let _selector: string;\n let _selectorRegexp: RegExp;\n let _consecutiveSelfRefRegExp: RegExp;\n\n const
selfReferenceReplacer = (match, offset, string) => {\n if (\n
// do not replace the first occurrence if it is
complex (has a modifier)\n
(offset === 0 ? COMPLEX_SELECTOR_PREFIX.indexOf(string[_selector.length])
=== -1 : true) &&\n
// no consecutive self refs (.b.b); that is a precedence boost and treated differently\n
!string.match(_consecutiveSelfRefRegExp)\n ) {\n
return `.${_componentId}`;\n }\n\n return match;\n
};\n\n /**\n * When writing a style like\n *\n * & + & {\n * color: red;\n * }\n *\n * The second
ampersand should be a reference to the static component class. stylis\n * has no knowledge of static class so we
have to intelligently replace the base selector.\n *\n * https://github.com/thysultan/stylis.js/tree/v3.5.4#plugins <more info about the context phase values\n * \"2\" means this plugin is taking effect at the very end after all other
processing is complete\n */\n const selfReferenceReplacementPlugin = (context, _, selectors) => {\n if (context
=== 2 && selectors.length && selectors[0].lastIndexOf(_selector) > 0) {\n
// eslint-disable-next-line no-paramreassign\n
selectors[0] = selectors[0].replace(_selectorRegexp, selfReferenceReplacer);\n }\n };\n\n
stylis.use([...plugins, selfReferenceReplacementPlugin, parseRulesPlugin, returnRulesPlugin]);\n\n function
stringifyRules(css, selector, prefix, componentId = '&'): Stringifier {\n const flatCSS =

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const cssStr = selector & prefix ? `${prefix} ${selector} { ${flatCSS} }` : flatCSS;

// stylis has no concept of state to be passed to plugins but since JS is single-threaded, we can rely on that to ensure // these properties stay in sync with the current stylis run

// componentId = componentId;

// selector = selector;

// selectorRegexp = new RegExp(`\${${selector}}\\b', 'g');

// consecutiveSelfRefRegExp = new RegExp(`\${${selector}}\\b\{2,\}`);

// return stylis(prefix ?? selector ? selector, cssStr); 

// stringifyRules.hash = plugins.length ? plugins.reduce((acc, plugin) => {

n if (!plugin.name) {

  throwStyledError(15);
}

return phash(acc, plugin.name);
}

, SEED)

// return phash(plugins, function(selector) {

// return stringifyRules(selector, '')

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Sultan Tarimo

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// @flow

import React, { type Context, type Node, useContext, useEffect, useMemo, useState } from 'react';

import shallowEqual from 'shallowequal';

import StyleSheet from '../sheet';

import type { Stringifier } from '../types';

import createStylisInstance from '../utils/stylis';


export const StyleSheetContext: Context<StyleSheet | void> = React.createContext();
export const StyleSheetConsumer = StyleSheetContext.Consumer;

export const StylisContext: Context<Stringifier | void> = React.createContext();
export const StylisConsumer = StylisContext.Consumer;

export const masterSheet: StyleSheet = new StyleSheet();

export const masterStylis: Stringifier = createStylisInstance();

export function useStyleSheet(): StyleSheet {
  return useContext(StyleSheetContext) || masterSheet;
}

export function useStylis(): Stringifier {
  return useContext(StylisContext) || masterStylis;
}

export default function StyleSheetManager(props: Props) {
  const [plugins, setPlugins] = useState(props.stylisPlugins);

  const contextStyleSheet = useStyleSheet();

  const styleSheet = useMemo(() => {
    let sheet = contextStyleSheet;

    if (props.sheet) {
      // eslint-disable-next-line prefer-destructuring
      sheet = props.sheet;
    } else if (props.target) {
      sheet = sheet.reconstructWithOptions({ target: props.target }, false);
    }

    if (props.disableCSSOMInjection) {
      sheet = sheet.reconstructWithOptions({ useCSSOMInjection: false });
    }

    return sheet;
  }, [props.disableCSSOMInjection, props.sheet, props.target]);

  const stylis = useMemo(() =>
    createStylisInstance({
        options: { prefix: !props.disableVendorPrefixes },
        plugins,
      }),
    [props.disableVendorPrefixes, plugins]
  );

  useEffect(() => {
    if (!shallowequal(plugins, props.stylisPlugins)) setPlugins(props.stylisPlugins);
  }, [props.stylisPlugins]);

  return (null);
shallowsEqual(objA, objB, compare, compareContext) {
  var ret = compare ? compare.call(compareContext, objA, objB) : void 0;
  if (ret !== void 0) {
    return !ret;
  }
  if (objA === objB) {
    return true;
  }
  if (typeof objA !== 'object' || !objA) {
    return false;
  }
  var keysA = Object.keys(objA);
  var keysB = Object.keys(objB);
  if (keysA.length !== keysB.length) {
    return false;
  }
  var bHasOwnProperty = Object.prototype.hasOwnProperty.bind(objB);
  for (var idx = 0; idx < keysA.length; idx++) {
    var key = keysA[idx];
    if (!bHasOwnProperty(key)) {
      return false;
    }
    var valueA = objA[key];
    var valueB = objB[key];
    if (compare ? compare.call(compareContext, valueA, valueB, key) : void 0) {
      return false;
    }
  }
  return true;
}

shallowEqual(objA, objB, compare, compareContext) {
  var ret = compare ? compare.call(compareContext, objA, objB) : void 0;
  if (ret !== void 0) {
    return !ret;
  }
  if (objA === objB) {
    return true;
  }
  if (typeof objA !== 'object' || !objA) {
    return false;
  }
  var keysA = Object.keys(objA);
  var keysB = Object.keys(objB);
  if (keysA.length !== keysB.length) {
    return false;
  }
  var bHasOwnProperty = Object.prototype.hasOwnProperty.bind(objB);
  for (var idx = 0; idx < keysA.length; idx++) {
    var key = keysA[idx];
    if (!bHasOwnProperty(key)) {
      return false;
    }
    var valueA = objA[key];
    var valueB = objB[key];
    if (compare ? compare.call(compareContext, valueA, valueB, key) : void 0) {
      return false;
    }
  }
  return true;
}

shallowEqual(objA, objB, compare, compareContext) {
  var ret = compare ? compare.call(compareContext, objA, objB) : void 0;
  if (ret !== void 0) {
    return !ret;
  }
  if (objA === objB) {
    return true;
  }
  if (typeof objA !== 'object' || !objA) {
    return false;
  }
  var keysA = Object.keys(objA);
  var keysB = Object.keys(objB);
  if (keysA.length !== keysB.length) {
    return false;
  }
  var bHasOwnProperty = Object.prototype.hasOwnProperty.bind(objB);
  for (var idx = 0; idx < keysA.length; idx++) {
    var key = keysA[idx];
    if (!bHasOwnProperty(key)) {
      return false;
    }
    var valueA = objA[key];
    var valueB = objB[key];
    if (compare ? compare.call(compareContext, valueA, valueB, key) : void 0) {
      return false;
    }
  }
  return true;
}
Object, styleSheet: ?Object, stylisInstance: ?Stringifier); any \n if (Array.isArray(chunk)) \n { const
  ruleSet = []; \n  for (let i = 0, len = chunk.length, result; i < len; i += 1)
  { \n    ruleSet.push(chunk[i]);
  }

  return prevKey ? \n    `[${prevKey} {`, ...ruleSet, `}]` : ruleSet;
}

export default function flatten(chunk, executionContext, styleSheet, stylisInstance)
{ \n  if (Array.isArray(chunk))
  { const
    ruleSet = []; \n    for (let i = 0, len = chunk.length, result; i < len; i += 1)
    { \n      rules.push(chunk[i]);
    }

    return prevKey ? \n      `[${prevKey} {`, ...rules, `}]` : rules;
  }

  if (isPlainObject(chunk)) \n  { \n    rules.push('/* Handle other components */
      if (isStyledComponent(chunk)) \n      { \n        return `.${chunk.styledComponentId}`;
      } else if (isStatelessFunction(chunk)) \n      { \n        return result = chunk(executionContext);
      } \n  }

  if (result !== undefined) \n  { \n    if (result === '') continue;
    else if (Array.isArray(result))
    { \n      ruleSet.push(...result);
    } \n    else return flatten(result);
  }

  if (isFalsish(chunk)) \n  { \n    return '';
  }

  /* Handle other components */
  if (isStyledComponent(chunk)) \n  { \n    return `.${chunk.styledComponentId}`;
  }

  /* Either execute or defer the function */
  if (isFunction(chunk)) \n  { \n    if (isStatelessFunction(chunk) && executionContext) \n    { \n      const result = chunk(executionContext);
    }
  }

  if (chunk instanceof Keyframes) \n  { \n    if (styleSheet) \n    { \n      chunk.inject(styleSheet, stylisInstance);
      return chunk.getName(stylisInstance);
    } else return chunk;
  }

  /* Handle objects */
  return isPlainObject(chunk) ? objToCssArray(chunk) : chunk.toString();
}

import React, { useContext, useMemo, type Element, type Context } from 'react';
import { throwStyledError } from '../utils/error';
import isFunction from '../utils/isFunction';

export type Theme = {[key: string]: mixed};

export type ThemeArgument = Theme | ((outerTheme?: Theme) => Theme);

export type Props = {
  children?: Element<any>,
  theme: ThemeArgument,
};

export const ThemeContext: Context<Theme | void> = React.createContext();

export const ThemeConsumer = ThemeContext.Consumer;

function mergeTheme(theme: ThemeArgument, outerTheme?: Theme): Theme {
  if (!theme) {
    throwStyledError(14);
  }

  if (isFunction(theme)) {
    const mergedTheme = theme(outerTheme);

    if (process.env.NODE_ENV !== 'production' &&
      (mergedTheme === null || Array.isArray(mergedTheme) ||
      typeof mergedTheme !== 'object')) {
      throwStyledError(7);
    }

    return mergedTheme;
  }

  if (Array.isArray(theme) || typeof theme !== 'object') {
    throwStyledError(8);
  }

  return outerTheme ? {
    ...outerTheme, ...
  } : theme;
}

/**
 * Provide a theme to an entire react component tree via context
 */
export default function ThemeProvider(props: Props) {
  const outerTheme = useContext(ThemeContext);
  const themeContext = useMemo(() => mergeTheme(props.theme, outerTheme), [
    props.theme,
    outerTheme,
  ]);

  if (!props.children) {
    return null;
  }

  return <ThemeContext.Provider value={themeContext}>{props.children}</ThemeContext.Provider>;
}

/* eslint-disable */
import { EMPTY_OBJECT } from './empties';

export default (props: Props, providedTheme: any, defaultProps: any = EMPTY_OBJECT) => {
  return (props.theme !== defaultProps.theme && props.theme) || providedTheme || defaultProps.theme;
}

/* eslint-disable no-underscore-dangle */
import React from 'react';
import { IS_BROWSER, SC_ATTR, SC_ATTR_VERSION, SC_VERSION } from '../constants';
import throwStyledError from '../utils/error';
import getNonce from '../utils/nonce';
import StyleSheet from '../sheet';
import StyleSheetManager from './StyleSheetManager';

declare var __SERVER__: boolean;

const CLOSING_TAG_R = /^\s*<\/[a-z]/i;

export default class ServerStyleSheet {
  isStreaming: boolean;

  instance: StyleSheet;

  sealed: boolean;

  constructor() {
    this.instance = new StyleSheet({
      isServer: true });
    this.sealed = false;
  }

  _emitSheetCSS = (): string => {
    const css = this.instance.toString();
    if (!css) return '';

    const nonce = getNonce();
    const attrs = [nonce && `nonce="${nonce}"`, `${SC_ATTR}="true"`, `${SC_ATTR_VERSION}="${SC_VERSION}"`];
    const htmlAttr = attrs.filter(Boolean).join(' ');

    return `<style ${htmlAttr}>${css}</style>`;
  };

  collectStyles(children: any) {
    if (this.sealed) {
      throwStyledError(2);
    }

    return <StyleSheetManager sheet={this.instance}>{children}</StyleSheetManager>;
  }

  getStyleTags = (): string => {
    if (this.sealed) {
      throwStyledError(2);
    }

    return this._emitSheetCSS();
  };

  getStyleElement = () => {
    if (this.sealed) {
      throwStyledError(2);
    }

    const props = {
      [SC_ATTR]: '',
      [SC_ATTR_VERSION]: SC_VERSION,
      dangerouslySetInnerHTML: {
        __html: this.instance.toString(),
      },
    };

    const nonce = getNonce();
    if (nonce) {
      (props: any).nonce = nonce;
    }

    // v4 returned an array for this fn, so we'll do the same for v5 for backward compat
    return <style {...props} key="sc-0-0" />;
  };

  // eslint-disable-next-line consistent-return
  interleaveWithNodeStream(input: any) {
    if (!__SERVER__ || IS_BROWSER) {
      throwStyledError(3);
    } else if (this.sealed) {
      throwStyledError(2);
    }

    if (__SERVER__) {
      this.seal();

      // eslint-disable-next-line global-require
      const { Readable, Transform } = require('stream');

      const readableStream: Readable = input;
      const { instance: sheet, _emitSheetCSS } = this;

      const transformer = new Transform({
        transform: function appendStyleChunks(chunk, /* encoding */ encoding, /* callback */ callback) {
          const html = _emitSheetCSS();
          const htmlTag = html_tag;
          const htmlAttr = html.attr();
          const htmlBody = html.body();

          sheet.clearTag();

          // prepend style html to chunk, unless the start of the chunk
          if (CLOSING_TAG_R.test(htmlTag)) {
            const endOfClosingTag = htmlTag.indexOf('>') + 1;
          }
        },
      });
    }

    return readableStream.pipe(transformer);
  }

  dangerouslySetInnerHTML: {
    __html: this.instance.toString(),
  };
module.exports = hoistNonReactStatics;

function memoize(fn) {
  var cache = {};
  return function (arg) {
    if (cache[arg] === undefined) cache[arg] = fn(arg);
    return cache[arg];
  };
}

export default memoize;

// @flow
/* eslint-disable */

import StyleSheet from './sheet';
import { masterSheet } from './models/StyleSheetManager';

export const __PRIVATE__ = {
  StyleSheet,
  masterSheet,
};

// @flow
import React, { useContext, useLayoutEffect, useRef } from 'react';
import { STATIC_EXECUTION_CONTEXT } from '../constants';
import GlobalStyle from '../models/GlobalStyle';
import { useStyleSheet, useStylis } from '../models/StyleSheetManager';
import { ThemeContext } from '../models/ThemeProvider';
import type { Interpolation } from '../types';
import { checkDynamicCreation } from '../utils/checkDynamicCreation';
import determineTheme from '../utils/determineTheme';
import generateComponentId from '../utils/generateComponentId';
import css from './css';

declare var __SERVER__: boolean;

type GlobalStyleComponentPropsType = Object;

export default function createGlobalStyle(
  strings: Array<string>,
  ...interpolations: Array<Interpolation>
) {
  const rules = css(strings, ...interpolations);
  const styledComponentId = `sc-global-` + generateComponentId(JSON.stringify(rules))
  const globalStyle = new GlobalStyle(rules, styledComponentId);

  if (process.env.NODE_ENV !== 'production') {
    checkDynamicCreation(styledComponentId);
  }

  function GlobalStyleComponent(props: GlobalStyleComponentPropsType) {
    const styleSheet = useStyleSheet();
    const stylis = useStylis();
    const theme = useContext(ThemeContext);
    const instanceRef = useRef(null);
    const memoize = memoize(null);
    const this.push = function (html) {
      this.push(`${html}`);
    };
    const this.render = function (component) {
      if (React.isValidElement(component)) {
        return component;
      } else {
        this.push(html + renderedHtml);
        this.push(callback());
      }
    };
    const readableStream = readableStream.on('error', err => {
      // forward the error to the transform stream
      transformer.emit('error', err);
    });
    const returnReadableStream = pipe(transformer);
    return this.push(HTML);
  }

  return GlobalStyleComponent;
}

// React version 16.11.1 and below
if (typeof Component !== 'string') {
  function Component() {
    this.sealed = true;
    if (getDerivedStateFromProps) {
      return DerivedStateFromProps;
    } else {
      this.push(html + renderedHtml);
      this.push(callback());
    }
  }

  readableStream.on('error', err => {
    transformer.emit('error', err);
  });

  return readableStream.pipe(transformer);
}

return readableStream.pipe(transformer);

      readableStream.on('error', err => {
        transformer.emit('error', err);
      });

      return readableStream.pipe(transformer);
    }
  }

  seal = () => {
    this.sealed = true;
  };
}

"use strict";

var reactIs = require('react-is');

/**
 * Copyright 2015, Yahoo!
 * Copyrights licensed under the New BSD License. See the accompanying LICENSE file for terms.
 */
var REACT_STATICS = {
  childContextTypes: true,
  contextType: true,
  contextTypes: true,
  defaultProps: true,
  displayName: true,
  getDerivedProps: true,
  getDerivedStateFromError: true,
  getDerivedStateFromProps: true,
  mixins: true,
  propTypes: true,
  type: true
};

var KNOWN_STATICS = {
  defaultProps: true,
  displayName: true,
  getDefaultProps: true,
  getDerivedStateFromError: true,
  getDerivedStateFromProps: true,
  mixins: true,
  propTypes: true,
  type: true
};

var FORWARD_REF_STATICS = {
  $refClass: true,
  $render: true,
  defaultProps: true,
  compare: true,
  type: true
};

var TYPE_STATICS = {
  [reactIs.Memo]: FORWARD_REF_STATICS,
  [reactIs.FastText]: MEMO_STATICS
};

function getStatics(component) {
  // React v16.11 and below
  if (reactIs.isMemo(component)) {
    return MEMO_STATICS;
  } // React v16.12 and above

  return TYPE_STATICS[component[this.$$typeof]] || REACT_STATICS;
}

var defineProperty = Object.defineProperty;
var getOwnPropertyNames = Object.getOwnPropertyNames;
var getOwnPropertySymbols = Object.getOwnPropertySymbols;
var getOwnPropertyDescriptor = Object.getOwnPropertyDescriptor;
var getPrototypeOf = Object.getPrototypeOf;
var objectPrototype = Object.prototype;
function hoistNonReactStatics(targetComponent, sourceComponent, blacklist) {
  if (typeof sourceComponent !== 'string') {
    // don't hoist over string (html) components
    if (objectPrototype) {
      var inheritedComponent = getPrototypeOf(sourceComponent);
      if (inheritedComponent !== objectPrototype) {
        hoistNonReactStatics(targetComponent, inheritedComponent, blacklist);
      }
    }

    var keys = getOwnPropertyNames(sourceComponent);
    var sourceStatics = getStatics(sourceComponent);

    for (var i = 0; i < keys.length; ++i) {
      var key = keys[i];

      if (!KNOWN_STATICS[key] && !(blacklist[key]) && (!sourceStatics && sourceStatics[key]) && (!targetStatics && targetStatics[key])) {
        var descriptor = getOwnPropertyDescriptor(sourceComponent, key);
        try {
          // Avoid failures from read-only properties
          defineProperty(targetComponent, key, descriptor);
        } catch (e) {}
      }
    }

    return targetComponent;
  }

  return targetComponent;
}

var checkDynamicCreation = function (name, value) {
  if (name !== 'SheetManager') {
    throw new Error('Cannot create static ' + name);
  }

  return value;
};

function memoize(fn) {
  var cache = {};
  return function (arg) {
    if (cache[arg] === undefined) cache[arg] = fn(arg);
    return cache[arg];
  };
}

export default memoize;

// @flow
/* eslint-disable */

import StyleSheet from './sheet';
import { masterSheet } from './models/StyleSheetManager';

export const __PRIVATE__ = {
  StyleSheet,
  masterSheet,
};
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The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

const isObject = val => {
  return (typeof val === 'function' || (typeof val === 'object' && val !== null && !Array.isArray(val)));
};

const isValidKey = key => {
  return key !== '__proto__' && key !== 'constructor' && key !== 'prototype';
};

function mixin(target, val, key) {
  const obj = target[key];
  if (isObject(val) && isObject(obj)) {
    mixinDeep(obj, val);
  } else {
    target[key] = val;
  }
}

export default function mixinDeep(target, ...rest) {
  for (const obj of rest) {
    if (isObject(obj)) {
      for (const key in obj) {
        if (isValidKey(key)) {
          mixin(target, obj[key], key);
        }
      }
    }
  }

  return target;
}

const identifiers = {};

/* We depend on components having unique IDs */
function generateId(displayName?: string, parentComponentId?: string) {
  const name = typeof displayName !== 'string' ? 'sc' : escape(displayName);
  // Ensure that no displayName can lead to duplicate componentIds
  identifiers[name] = (identifiers[name] || 0) + 1;

  const componentId = `${name}-${generateComponentId(SC_VERSION + name + identifiers[name])}`;

  return parentComponentId ? `${parentComponentId}-${componentId}` : componentId;
}

function useResolvedAttrs<Config>(theme: any = EMPTY_OBJECT, props: Config, attrs: Attrs) {
  // NOTE: can't memoize this
  // returns [context, resolvedAttrs]
  // where resolvedAttrs is only the things injected by the attrs themselves
  const context = { ...props, theme };
  const resolvedAttrs = {};

  attrs.forEach(attrDef => {
    let resolvedAttrDef = attrDef;
    let key;

    if (isFunction(resolvedAttrDef)) {
      resolvedAttrDef = resolvedAttrDef(context);
    }

    /* eslint-disable guard-for-in */
    for (key in resolvedAttrDef) {
      context[key] = resolvedAttrs[key] =
        key === 'className'
          ? joinStrings(resolvedAttrs[key], resolvedAttrDef[key])
          : resolvedAttrDef[key];
    }
  });

  return [context, resolvedAttrs];
}

function useInjectedStyle<T>(
  componentStyle: ComponentStyle,
  isStatic: boolean,
  resolvedAttrs: T,
  warnTooManyClasses?: $Call<typeof createWarnTooManyClasses, string, string>
) {
  const styleSheet = useStyleSheet();
  const stylis = useStylis();

  const className = isStatic
    ? componentStyle.generateAndInjectStyles(EMPTY_OBJECT, styleSheet, stylis)
    : componentStyle.generateAndInjectStyles(resolvedAttrs, styleSheet, stylis);

  // eslint-disable-next-line react-hooks/rules-of-hooks
  if (process.env.NODE_ENV !== 'production') {
    useDebugValue(className);
  }

  if (process.env.NODE_ENV !== 'production' && !isStatic && warnTooManyClasses) {
    warnTooManyClasses(className);
  }

  return className;
}
useStyledComponentImpl(<any>, IStyledComponent, props: Object, forwardedRef: Ref<any>, isStatic: boolean) {
  const { attrs: componentAttrs, componentStyle, defaultProps, foldedComponentIds, shouldForwardProp, styledComponentId, target, ... } = forwardedComponent;

  // eslint-disable-next-line react-hooks/rules-of-hooks
  useDebugValue(styledComponentId); // NOTE: the non-hooks version only subscribes to this when
  !componentStyle.isStatic; // but that'd be against the rules-of-hooks. We could be naughty and do it anyway as it
  // should be an immutable value, but behave for now:

  const context = useResolvedAttrs(theme || EMPTY_OBJECT, props, componentAttrs);

  const generatedClassName = useInjectedStyle(componentStyle,
    isStatic,
    context,
    process.env.NODE_ENV !== 'production' ?
    forwardedComponent.warnTooManyClasses : undefined
  );

  const refToForward = forwardedRef;

  const elementToBeCreated: Target = attrs.$as || props.$as || attrs.as || props.as || target;

  const isTargetTag = isTag(elementToBeCreated);

  const propsForElement = {};

  // eslint-disable-next-line guard-for-in
  for (const key in computedProps) {
    if (key[0] === '$' || key === 'as') continue;
    else if (key === 'forwardedAs') {
      propsForElement.as = computedProps[key];
    } else if (shouldForwardProp(key, validAttr, elementToBeCreated)) {
      // Don't pass through non
      // HTML tags through to HTML elements
      propsForElement[key] = computedProps[key];
    }
  }

  if (props.style && attrs.style !== props.style) {
    propsForElement.style = { ...props.style, ...attrs.style };
  }

  propsForElement.className = Array.prototype
    .concat(
      foldedComponentIds,
      generatedClassName !== styledComponentId ? generatedClassName : null,
      props.className,
      attrs.className
    )
    .filter(Boolean)
    .join(' ');

  propsForElement.ref = refToForward;

  return createElement(elementToBeCreated, propsForElement);
}

export default function createStyledComponent(target: $PropertyType<IStyledComponent, 'target'>, options: {
  attrs?: Attrs,
  componentId: string,
  displayName?: string,
  parentComponentId?: string,
  shouldForwardProp?: ShouldForwardProp,
}, rules: RuleSet) {
  const isTargetStyledComp = isStyledComponent(target);

  const {
    attrs = EMPTY_ARRAY,
    componentId = generateId(options.displayName,
      options.parentComponentId),
    displayName = generateDisplayName(target),
  } = options;

  const styledComponentId =
    options.displayName && options.componentId
      ? `${escape(options.displayName)}-` + options.componentId
      : options.componentId || componentId;

  // fold the underlying StyledComponent
  const finalAttrs =
    isTargetStyledComp && ((target: any): IStyledComponent).attrs

  // eslint-disable-next-line prefer-destructuring
  let shouldForwardProp = options.shouldForwardProp;

  if (isTargetStyledComp && target.shouldForwardProp) {
    if (options.shouldForwardProp) {
      // compose
      shouldForwardProp = (prop, filterFn, elementToBeCreated) =>
        ((target: any): IStyledComponent).attrs[prop]?
          // eslint-disable-next-line eslint-disable-next-line prefer-destructuring
          let shouldForwardProp = options.shouldForwardProp;

          if (isTargetStyledComp && target.shouldForwardProp) {
            if (options.shouldForwardProp) {
              // compose nested shouldForwardProp calls
              shouldForwardProp = (prop, filterFn, elementToBeCreated) =>
                (((target: any): IStyledComponent).shouldForwardProp || shouldForwardProp) ||
                (options.shouldForwardProp: any);

              if (options.shouldForwardProp: any)
                ShouldForwardProp(prop, filterFn, elementToBeCreated);\n            } else
              // eslint-disable-next-line prefer-destructuring
              shouldForwardProp = ((target: any): IStyledComponent).shouldForwardProp;
          }\n
          \n          const componentStyle = new ComponentStyle(
            rules,\n            styledComponentId,\n            isTargetStyleComp ?
              ((target: Object).componentStyle: ComponentStyle) : undefined,\n            // statically styled-components don't need to build an execution context object,\n            // and shouldn't be increasing the number of class names\n            const isStatic = componentStyle.isStatic &\n              & attrs.length === 0;\n          \n          * forwardRef creates a new interim component, which
          we'll take advantage of\n          * instead of extending ParentComponent to create _another_ interim class\n          * let

          WrappedStyleComponent: IStyledComponent;\n
          const forwardRef = (props, ref) =>
            // eslint-disable-next-line eslint-disable-next-line
            useStyleComponentImpl(WrappedStyleComponent, props, ref, isStatic);

          forwardRef.displayName =
            displayName;\n
          WrappedStyleComponent = ((React.forwardRef(forwardRef): any): IStyledComponent);

          WrappedStyleComponent.attrs = finalAttrs;\n
          WrappedStyleComponent.componentStyle = componentStyle;\n
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ReactDOMFactories for this handy list!

export default [
  'a',
  'abbr',
  'address',
  'area',
  'article',

'aside',
  'audio',
  'b',
  'base',
  'bdi',
  'bdo',
  'big',
  'blockquote',
  'body',
  'br',
  'button',
  'canvas',
  'caption',
  'cite',
  'code',
  'col',
  'colgroup',
  'data',
  'datalist',
  'dd',
  'del',
  'details',
  'dfn',
  'dialog',
  'div',
  'dl',
  'dt',
  'em',
  'embed',
  'fieldset',
  'figure',
  'footer',
  'form',
  'h1',
  'h2',
  'h3',
  'h4',
  'h5',
  'h6',
  'header',
  'hr',
  'html',
  'i',
  'iframe',
  'img',
  'input',
  'ins',
  'kbd',
  'keygen',
  'label',
  'legend',
  'li',
  'link',
  'main',
  'map',
  'mark',
  'marquee',
  'menu',
  'menuitem',
  'meta',
  'meter',
  'nav',
  'navi',
  'object',
  'ol',
  'optgroup',
  'option',
  'output',
  'p',
  'param',
  'picture',
  'pre',
  'progress',
  'q',
  'rp',
  'rt',
  'ruby',
  's',
  'samp',
  'script',
  'section',
  'select',
  'small',
  'source',
  'span',
  'strong',
  'style',
  'sub',
  'summary',
  'sup',
  'table',
  'tbody',
  'td',
  'textarea',
  'tfoot',
  'th',
  'thead',
  'time',
  'title',
  'tr',
  'track',
  'u',
  'ul',
  'var',
  'video',
  'wbr',
  // SVG
  'circle',
  'clipPath',
  'defs',
  'ellipse',
  'foreignObject',
  'g',
  'image',
  'line',
  'linearGradient',
  'marker',
  'mask',
  'path',
  'polygon',
  'polyline',
  'radialGradient',
  'rect',
  'stop',
  'svg',
  'text',
  'textPath',
  'textShadow',
  'title',
  'tspan',
];
Found in path(s):
* /opt/cola/permits/1341833602_1654812146.0913105/0/styled-components-5-3-3-3-tgz/package/dist/styled-components.min.js.map

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

```javascript
"version":3,"file":"styled-components.browser.esm.js","sources":
  ["// @flow
import { Interpolation } from 'react-is';

export default (strings: Array<string>, interpolations: Array<Interpolation>) => {
  const result = [strings[0]];

  for (let i = 0, len = interpolations.length; i < len; i += 1) {
    result.push(interpolations[i], strings[i + 1]);
  }

  return result;
}"
```

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rendered. Please use the component without passing children elements.\n\n"It seems you are interpolating a keyframe declaration (%s) into an untagged string. This was supported in styled-components v3, but is not longer supported in v4 as keyframes are now injected on-demand. Please wrap your string in the css\\`\\` helper which ensures the styles are injected correctly. See https://www.styled-components.com/docs/api#css\n\n";\n\n"%s is not a styled component and cannot be referred to via component selector. See https://www.styled-components.com/docs/advanced#referring-to-other-components for more details.\n\n";\n\n"ThemeProvider: \"theme\" prop is required.\n\n";\n\n"A stylis plugin has been supplied that is not named. We need a name for each plugin for each plugin to be able to prevent styling collisions between different stylis configurations within the same app. Before you pass your plugin to `<StyleSheetManager stylisPlugins={[...]}>`;\n\n";\n\n"Reached the limit of how many styled components may be created at group %s. You may only create up to 1,073,741,824 components. If you're creating components dynamically, as for instance in your render method then you may be running into this limitation.\n\n";\n\n"CSSStyleSheet could not be found on HTMLStyleElement. Has styled-components' style tag been unmounted or altered by another script?\n\n";\n\n"@flow\n/* eslint-disable no-use-before-define */

import type { GroupedTag, Tag } from './types';

/** Create a GroupedTag with an underlying Tag implementation */
export const makeGroupedTag = (tag: Tag): GroupedTag => {
  return new DefaultGroupedTag(tag);
};

const BASE_SIZE = 1 << 9;

class DefaultGroupedTag implements GroupedTag {
  groupSizes: Uint32Array;

  length: number;

  tag: Tag;

  constructor(tag: Tag) {
    this.groupSizes = new Uint32Array(BASE_SIZE);
    this.length = BASE_SIZE;
    this.tag = tag;
  }

  indexOfGroup(group: number): number {
    let index = 0;
    for (let i = 0; i < group; i++) {
      index += this.groupSizes[i];
    }

    return index;
  }

  insertRules(group: number, rules: string[]): void {
    if (group >= this.groupSizes.length) {
      const oldBuffer = this.groupSizes;
      const oldSize = oldBuffer.length;

      let newSize = oldSize;
      while (group >= newSize) {
        newSize <<= 1;
        if (newSize < 0) {
          throwStyledError(16, `${group}`);
        }
      }

      this.groupSizes = new Uint32Array(newSize);
      this.groupSizes.set(oldBuffer);
      this.length = newSize;

      for (let i = oldSize; i < newSize; i++) {
        this.groupSizes[i] = 0;
      }
    }

    let ruleIndex = this.indexOfGroup(group + 1);
    for (let i = 0, l = rules.length; i < l; i++) {
      if (this.tag.insertRule(ruleIndex, rules[i])) {
        this.groupSizes[group]++;
        ruleIndex++;
      }
    }

    clearGroup(group: number): void {
      if (group < this.length) {
        const length = this.groupSizes[group];
        const startIndex = this.indexOfGroup(group);
        const endIndex = startIndex + length;

        this.groupSizes[group] = 0;

        for (let i = startIndex; i < endIndex; i++) {
          this.tag.deleteRule(startIndex);
        }
      }
    }

    getGroup(group: number): string {
      if (group >= this.groupSizes.length) {
        const oldBuffer = this.groupSizes;
        const oldSize = oldBuffer.length;
        let newSize = oldSize;
        while (group >= newSize) {
          newSize <<= 1;
          if (newSize < 0) {
            throwStyledError(16, `${group}`);
          }
        }

        this.groupSizes = new Uint32Array(newSize);
        this.groupSizes.set(oldBuffer);
        this.length = newSize;

        for (let i = oldSize; i < newSize; i++) {
          this.groupSizes[i] = 0;
        }
      }

      let ruleIndex = this.indexOfGroup(group + 1);
      for (let i = 0, l = rules.length; i < l; i++) {
        if (this.tag.insertRule(ruleIndex, rules[i])) {
          this.groupSizes[group]++;
          ruleIndex++;
        }
      }

      return this.tag.getRule(ruleIndex);
    }

    deleteRule(ruleIndex: number): void {
      this.groupSizes[ruleIndex] = 0;
      this.length -= 1;
      this.tag.deleteRule(ruleIndex);
    }

    
    // @flow\n
    import throwStyledError from '../utils/error';

    export const resetGroupIds = () => {
      groupIDRegister = new Map();
      reverseRegister = new Map();
      nextFreeGroup = 1;
    }

    export const getGroupForId = (id: string): number => {
      if (groupIDRegister.has(id)) {
        return (groupIDRegister.get(id): any);
      }

      while (reverseRegister.has(nextFreeGroup)) {
        nextFreeGroup++;
      }

      const group = nextFreeGroup;
      groupIDRegister.set(id, group);
      reverseRegister.set(group, id);
      return group;
    }

    export const setGroupForId = (id: string, group: number) => {
      if (group >= nextFreeGroup) {
        nextFreeGroup = group + 1;
      }

      groupIDRegister.set(id, group);
      reverseRegister.set(group, id);
    }

    export const getIdForGroup = (group: number): void | string => {
      if (group < nextFreeGroup) {
        return null;
      }

      return reverseRegister.get(group);
    }

    export const nextFreeGroup = 1;
    
    //@types\n
    Open Source Used In Cisco Telemetry Broker On Prem 1.3.1 5627
const MARKER_RE = new RegExp(`^(${SC_ATTR}).g\d\[id="(${id})"].*?"(${content})"`);

export const outputSheet = (sheet: Sheet) => {
  const tag = sheet.getTag();
  const { length } = tag;

  let css = '';
  for (let group = 0; group < length; group++) {
    const id = getIdForGroup(group);
    if (id === undefined) continue;

    const names = sheet.names.get(id);
    const rules = tag.getGroup(group);
    if (!names || !rules || !names.size) continue;

    const selector = `${SC_ATTR}.g${group}[id="${id}"]`;

    let content = '';
    if (names !== undefined) {
      names.forEach(name => {
        if (name.length > 0) {
          content += `${name},`;
        }
      });
    }

    // NOTE: It's easier to collect rules and have the marker after the actual rules to simplify the rehydration
    css += `${rules}${selector}{content:"${content}"}${SPLITTER}`;
  }

  return css;
};

const rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {
  const names = content.split(','),

  const rules = tag.rules,
  const length = rules.length,

  for (let i = 0; i < length; i++) {
    if (id === undefined) continue;

    const marker = rules[i].match(MARKER_RE);

    if (marker) {
      const group = parseInt(marker[1], 10) | 0;
      const id = marker[2];

      if (group !== 0) {
        // Rehydrate componentId to group index mapping
        setGroupForId(id, group);
        // Rehydrate names and rules
        // looks like: data-styled.g11[id="idA"]{content:"nameA,"}
        rehydrateNamesFromContent(sheet, id, marker[3]);
        sheet.getTag().insertRules(group, rules);
      }

      rules.length = 0;
    } else {
      rules.push(part);
    }
  }

  return css;
};

export const rehydrateSheet = (sheet: Sheet) => {
  const nodes = document.querySelectorAll(SELECTOR);

  for (let i = 0, l = nodes.length; i < l; i++) {
    const node = (nodes[i]: any): HTMLStyleElement;
    if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE) {
      rehydrateSheetFromTag(sheet, node);
      if (node.parentNode) {
        node.parentNode.removeChild(node);
      }
    }
  }
};

const getNonce = () => {
  return typeof window !== 'undefined'
    ? typeof window.__webpack_nonce__ !== 'undefined'
      ? window.__webpack_nonce__
    : null
  : null;
};

export default getNonce;

import { SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from '../constants';
import getNonce from '../utils/nonce';
import throwStyledError from '../utils/error';

const ELEMENT_TYPE = 1; /* Node.ELEMENT_TYPE */

/** Find last style element if any inside target */
const findLastStyleTag = (target: HTMLElement): void | HTMLStyleElement => {
  const { childNodes } = target;

  for (let i = childNodes.length; i >= 0; i--) {
    const child = ((childNodes[i]: any): ?HTMLElement);
    if (child && child.nodeType === ELEMENT_TYPE &&
      child.hasAttribute(SC_ATTR)) {
      return ((child: any): HTMLStyleElement);
    }
  }

  return undefined;
};

/** Create a style element inside `target` or <head> after the last */
export const makeStyleTag = (target?: HTMLElement): HTMLStyleElement => {
  const head = ((document.head: any): HTMLElement);
  const parent = target || head;
  const style = document.createElement('style');
  const prevSibling = findLastStyleTag(parent);

  style.setAttribute(SC_ATTR, SC_ATTR_ACTIVE);
  style.setAttribute(SC_ATTR_VERSION, SC_VERSION);

  style.appendChild(document.createTextNode('/*

  if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE)
  node.styleSheetFromTag(sheet, node);

  if (node.nodeType === ELEMENT_TYPE &&
    node.hasAttribute(SC_ATTR)) {
    return ((node: any): HTMLStyleElement);
  }

  return undefined;
}

/** Get the CSSStyleSheet instance for a given style element */
export const getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {
  if (tag.sheet) {
    return ((tag.sheet: any): CSSStyleSheet);
  }

  // Avoid Firefox quirk where the style element might not have a sheet property
  const style = document-sheet-for(let i = 0, l = styleSheets.length; i < l; i++) {
    const sheet = styleSheets[i];
    if (sheet.ownerNode === tag) {
      return ((sheet: any): CSSStyleSheet);
    }
  }

  throwStyledError(17);
  return (undefined: any);
};

/** Find last style element if any inside target */
const findLastStyleTag = (target: HTMLElement): void | HTMLStyleElement => {
  const { childNodes } = target;

  for (let i = childNodes.length; i >= 0; i--) {
    const child = ((childNodes[i]: any): ?HTMLElement);
    if (child && child.nodeType === ELEMENT_TYPE &&
      child.hasAttribute(SC_ATTR)) {
      return ((child: any): HTMLStyleElement);
    }
  }

  return undefined;
};

/** Create a style element inside `target` or <head> after the last */
export const makeStyleTag = (target?: HTMLElement): HTMLStyleElement => {
  const head = ((document.head: any): HTMLElement);
  const parent = target || head;
  const style = document.createStyleSheet(style):

  if (node.nodeType === ELEMENT_TYPE &&
    node.hasAttribute(SC_ATTR)) {
    return ((node: any): HTMLStyleElement);
  }

  return undefined;
}

/** Get the CSSStyleSheet instance for a given style element */
export const getSheet = (tag: CSSStyleSheet): CSSStyleSheet => {
  if (tag.sheet) {
    return ((tag.sheet: any): CSSStyleSheet);
  }

  // Avoid Firefox quirk where the style element might not have a sheet property
  const style = document-sheet-for(let i = 0, l = styleSheets.length; i < l; i++) {
    const sheet = styleSheets[i];
    if (sheet.ownerNode === tag) {
      return ((sheet: any): CSSStyleSheet);
    }
  }

  throwStyledError(17);
  return (undefined: any);
};

/** Find last style element if any inside target */
const findLastStyleTag = (target: CSSStyleSheet): void | CSSStyleSheet => {
  if (target.sheet) {
    return ((target.sheet: any): CSSStyleSheet);
  }

  // Avoid Firefox quirk where the style element might not have a sheet property
  const style = document-sheet-for(let i = 0, l = styleSheets.length; i < l; i++) {
    const sheet = styleSheets[i];
    if (sheet.ownerNode === tag) {
      return ((sheet: any): CSSStyleSheet);
    }
  }

  throwStyledError(17);
  return (undefined: any);
};

/** Get the CSSStyleSheet instance for a given style element */
export const getSheet = (tag: CSSStyleSheet): CSSStyleSheet => {
  if (tag.sheet) {
    return ((tag.sheet: any): CSSStyleSheet);
  }

  // Avoid Firefox quirk where the style element might not have a sheet property
  const style = document-sheet-for(let i = 0, l = styleSheets.length; i < l; i++) {
    const sheet = styleSheets[i];
    if (sheet.ownerNode === tag) {
      return ((sheet: any): CSSStyleSheet);
    }
  }

  throwStyledError(17);
  return (undefined: any);
};

/** Find last style element if any inside target */
const findLastStyleTag = (target: CSSStyleSheet): void | CSSStyleSheet => {
  if (target.sheet) {
    return ((target.sheet: any): CSSStyleSheet);
  }

  // Avoid Firefox quirk where the style element might not have a sheet property
  const style = document-sheet-for(let i = 0, l = styleSheets.length; i < l; i++) {
    const sheet = styleSheets[i];
    if (sheet.ownerNode === tag) {
      return ((sheet: any): CSSStyleSheet);
    }
  }

  throwStyledError(17);
  return (undefined: any);
};

/** Get the CSSStyleSheet instance for a given style element */
export const getSheet = (tag: CSSStyleSheet): CSSStyleSheet => {
  if (tag.sheet) {
    return ((tag.sheet: any): CSSStyleSheet);
  }

  // Avoid Firefox quirk where the style element might not have a sheet property
  const style = document-sheet-for(let i = 0, l = styleSheets.length; i < l; i++) {
    const sheet = styleSheets[i];
    if (sheet.ownerNode === tag) {
      return ((sheet: any): CSSStyleSheet);
    }
  }

  throwStyledError(17);
  return (undefined: any);
};
if (useCSSOMInjection) {
    return new CSSOMTag(target);
  } else {
    return new TextTag(target);
}

export class CSSOMTag implements Tag {
  element: HTMLStyleElement;

  sheet: CSSStyleSheet;

  length: number;

  constructor(target?: HTMLElement) {
    const element = (this.element = makeStyleTag(target));

    element.appendChild(document.createTextNode(''));

    this.sheet = getSheet(element);
    this.length = 0;

    this.insertRule(index: number, rule: string): boolean {
      try {
        this.sheet.insertRule(rule, index);
        this.length++;
        return true;
      } catch (_error) {
        return false;
      }
    }

    deleteRule(index: number): void {
      this.sheet.deleteRule(index);
      this.length--;
    }

    getRule(index: number): string {
      const rule = this.sheet.cssRules[index];
      if (rule !== undefined && typeof rule.cssText === 'string') {
        return rule.cssText;
      } else {
        return ''; // Avoid IE11 quirk where cssText is inaccessible on some invalid rules
      }
    }
}

/** A Tag that emulates the CSSStyleSheet API but uses text nodes */
export class TextTag implements Tag {
  element: HTMLStyleElement;

  nodes: NodeList<Node>;

  length: number;

  constructor(target?: HTMLElement) {
    const element = (this.element = makeStyleTag(target));

    this.nodes = element.childNodes;
    this.length = 0;

    this.insertRule(index: number, rule: string): boolean {
      if (index <= this.length && index >= 0) {
        const node = document.createTextNode(rule);
        const refNode = this.nodes[index];
        this.element.insertBefore(node, refNode || null);
        this.length++;
        return true;
      }
      return false;
    }

    deleteRule(index: number): void {
      this.element.removeChild(this.nodes[index]);
      this.length--;
    }

    getRule(index: number): string {
      if (index < this.length) {
        return this.nodes[index].textContent;
      } else {
        return ''; // Avoid IE11 quirk where cssText is inaccessible on some invalid rules
      }
    }
}

/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */
export class VirtualTag implements Tag {
  rules: string[];

  length: number;

  constructor(_target?: HTMLElement) {
    this.rules = []; // Empty an empty virtual tag
    this.length = 0;

    this.insertRule(index: number, rule: string): boolean {
      if (index <= this.length) {
        this.rules.splice(index, 0, rule);
        this.length++;
        return true;
      }
      return false;
    }

    deleteRule(index: number): void {
      this.rules.splice(index, 1);
      this.length--;
    }

    getRule(index: number): string {
      if (index < this.length) {
        return this.rules[index];
      } else {
        return ''; // Avoid IE11 quirk where cssText is inaccessible on some invalid rules
      }
    }
}

@flow
import { DISABLE_SPEEDY, IS_BROWSER } from '../constants';
import { EMPTY_OBJECT } from '../utils/empties';
import { makeGroupedTag } from './GroupedTag';
import { getGroupForId } from './GroupIDAllocator';
import { outputSheet, rehydrateSheet } from './Rehydration';
import { makeTag } from './Tag';
import type { GroupedTag, Sheet, SheetOptions } from './types';

let SHOULD_REHYDRATE = IS_BROWSER;

type SheetConstructorArgs = {
  isServer?: boolean,
  useCSSOMInjection?: boolean,
  target?: HTMLElement,
};

type GlobalStylesAllocationMap = { [key: string]: number };
type NamesAllocationMap = Map<string, Set<string>>;

const defaultOptions: SheetOptions = {
  isServer: !IS_BROWSER,
  useCSSOMInjection: !DISABLE_SPEEDY,
};

/** Contains the main stylesheet logic for stringification and caching */
export default class StyleSheet implements Sheet {
  gs: GlobalStylesAllocationMap;

  names: NamesAllocationMap;

  options: SheetOptions;

  server: boolean;

  tag: GroupedTag;

  /** Register a group ID to give it an index */
  static registerId(id: string): number {
    return getGroupForId(id);
  }

  constructor(
    options: SheetConstructorArgs = EMPTY_OBJECT,
    globalStyles?: GlobalStylesAllocationMap = {},
    names?: NamesAllocationMap
  ) {
    this.options = {
      ...defaultOptions,
      ...options,
    };

    this.gs = globalStyles;
    this.names = new Map(names);

    this.server = !options.isServer;

    if (!this.server && !IS_BROWSER && SHOULD_REHYDRATE) {
      SHOULD_REHYDRATE = false;
    }

    const newStyleSheet = makeNewStyleSheet();

    this.tag = makeTag(this.options);

    this.tag.registerId(id); // Register a group ID to give it an index

    this.tag.reconstructWithOptions(options: SheetConstructorArgs,
      withNames?: boolean = true) {
      return new StyleSheet({ ...this.options, ...options },
        this.gs, this.names);
    }

    this.tag.allocateGSInstance(id); // Allocate a group ID to give it an index

    if (this.tag.id) {
      this.tag.tag = makeTag(this.options);
    }

    // We rehydrate only once and use the sheet that is created first
    if (!this.server && IS_BROWSER && SHOULD_REHYDRATE) {
      SHOULD_REHYDRATE = false;
    }

    this.tag.reconstructWithOptions(options: SheetConstructorArgs,
      withNames?: boolean = true) {
      return new StyleSheet({ ...this.options, ...options },
        this.gs, this.names);
    }

    // Mark a group's name as known for caching
    this.names.hasNameForId(id, name: string);

    return this.names.has(id) && this.names.getName(id);
  }

  allocateGSInstance(id: string) {
    return (this.gs[id] || 0) + 1;
  }

  /** Lazily initialise a GroupedTag for when it's actually needed */
  getTag(): GroupedTag {
    return this.tag;
  }

  /** Check whether a name is known for caching */
  hasNameForId(id: string, name: string): boolean {
    return this.names.has(id) && this.names.getName(id);
  }

  /** */

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```javascript
// An insertRule function which also marks the name as known
const insertRules = (id, name, rules) => {
  if (!this.names.has(id)) {
    const groupNames = new Set();
    groupNames.add(name);
    this.names.set(id, groupNames);
  } else {
    (this.names.get(id): any).add(name);
  }

  this.getTag().insertRules(getGroupForId(id), rules);
}

/** Clears all cached names for a given group ID */
const clearNames = id => {
  if (this.names.has(id)) {
    (this.names.get(id): any).clear();
  }
}

/** Clears all rules for a given group ID */
const clearRules = id => {
  this.getTag().clearGroup(getGroupForId(id));
  this.clearNames(id);
}

/** Clears the entire tag which deletes all rules but not its names */
const clearTag = () => {
  // NOTE: This does not clear the names, since it's only used during SSR
  // so that we can continuously output
  this.tag = undefined;
}

/** Outputs the current sheet as a CSS string with markers for SSR */
const toString = () => {
  return outputSheet(this);
}
```

```javascript
const AD_REPLACER_R = /(a)(d)/gi;

const charsLength = 52;

const getAlphabeticChar = (code) =>
  String.fromCharCode(code + (code > 25 ? 39 : 97));

const generateAlphabeticName = (code) =>
  let name = '';
  let x;
  for (x = Math.abs(code); x > charsLength; x = (x / charsLength) | 0) {
    name = getAlphabeticChar(x % charsLength) + name;
  }
  return (getAlphabeticChar(x % charsLength) + name).replace(AD_REPLACER_R, '$1-$2');

const SEED = hash(SC_VERSION);

export default class ComponentStyle {
  baseHash:
  baseStyle: ?ComponentStyle;
  componentId: string;
  isStatic: boolean;
  rules: RuleSet;
  staticRulesId: string;

  constructor(rules, componentId, baseStyle = undefined) {
    this.rules = rules;
    this.staticRulesId = baseStyle ? baseStyle.staticRulesId : undefined;
    this.isStatic = process.env.NODE_ENV === 'production' &&
      (baseStyle === undefined || baseStyle.isStatic) &&
      isStaticRules(rules);
    this.componentId = componentId;

    this.baseHash = phash(SEED, componentId);
    this.baseStyle = baseStyle;

    StyleSheet.registerId(componentId);

    this.rules = rules;
    this.staticRulesId = this.staticRulesId;
    this.isStatic = isStaticRules(rules);

    if (this.componentId) {
      // SC_VERSION gives us isolation between multiple runtimes on the page at once
      // this is improved further with use of the babel plugin "namespace" feature
      this.baseHash = hash(SEED, componentId);
      this.baseStyle = baseStyle;
      // NOTE: This registers the componentId, which ensures a consistent order
      for (this.componentId.styles compared to others)
      StyleSheet.registerId(componentId);

      if (this.staticRulesId) {
        // force dynamic classnames if user-supplied stylis plugins are in use
        const cssStatic = flatten(this.rules, executionContext, styleSheet, stylis);
        this.componentId = cssStatic;
      } else {
        const cssStatic = flatten(this.rules, executionContext, styleSheet, stylis);
        this.componentId = cssStatic;
      }
```
(StyleSheet, hasNameForId(componentId, name)) {
  const cssStaticFormatted = stylis(cssStatic, `.\${name}`, undefined, componentId);)
  StyleSheet.insertRules(componentId, name, cssStaticFormatted);
} else {
  const names = new Array();
  StyleSheet.names.push(name);
  this.staticRulesId = name;
}

if (!StyleSheet.hasNameForId(componentId, name)) {
  const cssStaticFormatted = stylis(cssStatic, `.\${name}`, undefined, componentId);
  StyleSheet.insertRules(componentId, name, cssStaticFormatted);
  names.push(name);
}

return names.join(' ');

import Stylis from '@emotion/stylis';
import { type Stringifier } from '../types';
import { EMPTY_ARRAY, EMPTY_OBJECT } from './empties';
import throwStyledError from './error';
import { phash, SEED } from './hash';
import insertRulePlugin from './stylisPluginInsertRule';

const COMMENT_REGEX = /^\s*\/\/.*$/gm;
const COMPLEX_SELECTOR_PREFIX = [':', '[', '.', '#'];

type StylisInstanceConstructorArgs = {
  options?: Object,
  plugins?: Array<Function>,
};

export default function createStylisInstance({
  options = EMPTY_OBJECT,
  plugins = EMPTY_ARRAY,
}: StylisInstanceConstructorArgs = EMPTY_OBJECT) {
  const stylis = new Stylis(options);

  // Wrap insertRulePlugin to build a list of rules, // and then make our own plugin to return the rules. This
  // makes it easier to hook into the existing SSR architecture let parsingRules = [];
  // eslint-disable-next-line consistent-return
  const returnRulesPlugin = context => {
    if (context === -2) {
      const parsedRules = parsingRules;
      parsingRules = [];
      return parsedRules;
    }
  };

  const parseRulesPlugin = insertRulePlugin(rule => {
    parsingRules.push(rule);
  });

  let _componentId: string;
  let _selector: string;
  let _selectorRegexp: RegExp;
  let _consecutiveSelfRefRegExp: RegExp;

  const selfReferenceReplacer = (match, offset, string) => {
    if (
      // do not replace the first occurrence if it is complex (has a modifier)
      (offset === 0 ? COMPLEX_SELECTOR_PREFIX.indexOf(string[_selector.length]) === -1 : true) &&
      // no consecutive self refs (.b.b); that is a precedence boost and treated differently
      !string.match(_selectorRegexp, string) ) {
      return `$(_componentId) \${name}
    }
  }

  /**
   * When writing a style like
   *
   * & + & {
   *   color: red;
   * }
   *
   * The second ampersand should be a reference to the static component class. stylis
   * has no knowledge of static class so we
   * have to intelligently replace the base selector.
   */
  const selfReferenceReplacementPlugin = (context, _, selectors) => {
    if (context === 2 && selectors.length && selectors[0].lastIndexOf(_selector) > 0) {
      // eslint-disable-next-line no-param-reassign
      selectors[0] = selectors[0].replace(_selectorRegexp, selfReferenceReplacer);
    }
  };

  stylis.use([...plugins, selfReferenceReplacementPlugin, parseRulesPlugin, returnRulesPlugin]);

  function stringifyRules(css, selector, prefix, componentId = '&') {
    const flatCSS = stylis(selector, css);
    return flatCSS;
  }

  stringifyRules.hash = plugins.length
    ? plugins.reduce((acc, plugin) => {
        if (!plugin.name) {
            throwStyledError(15);
          }

          return phash(acc, plugin.name);
        }, SEED)
        .toString()
    : '';

  return stringifyRules;
}
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```
/* eslint-disable */

export default function(insertRule) {
  const delimiter = '/*|*/';
  const needle = `${delimiter}}`

  function toSheet(block) {
    if (block) {
      try {
        insertRule(`${block}}`);
      } catch (e) {}
    }
  }

  return function ruleSheet(
    context,
    content,
    selectors,
    parents,
    line,
    column,
    length,
    ns,
    depth,
    at
  ) {
    switch (context) {
      // property
      case 1:
        // @import
        if (depth === 0 && content.charCodeAt(0) === 64) return insertRule(`${content};`), '';
        break;
      // selector
      case 2:
        if (ns === 0) return content + delimiter;
        break;
      // at-rule
      case 3:
        switch (ns) {
          // @font-face, @page
          case 102:
            case 112:
              return insertRule(selectors[0] + content), '';
            default:
              return content + (at === 0 ? delimiter : '');
        }
        break;
      // at-rule
      case 3:
        return content + delimiter;
        break;
    }
  }
}
```

```
import React, { type Context, type Node, useContext, useEffect, useMemo, useState } from 'react';
import shallowEqual from 'shallowequal';
import StyleSheet from '../sheet';
import type { Stringifier } from '../types';
import createStylisInstance from '../utils/stylis';

interface Props {
  children?: Node,
  disableCSSOMInjection?: boolean,
  disableVendorPrefixes?: boolean,
  sheet?: StyleSheet,
  stylisPlugins?: Array<Function>,
  target?: HTMLElement,
}

export const StyleSheetContext: Context<StyleSheet | void> = React.createContext();
export const StyleSheetConsumer = StyleSheetContext.Consumer;
export const StylisContext: Context<Stringifier | void> = React.createContext();
export const StylisConsumer = StylisContext.Consumer;

export const masterSheet: StyleSheet = new StyleSheet();
export const masterStylis: Stringifier = createStylisInstance();

export function useStyleSheet(): StyleSheet {
  return useContext(StyleSheetContext) || masterSheet;
}

export function useStylis(): Stringifier {
  return useContext(StylisContext) || masterStylis;
}

export default function StyleSheetManager(props: Props) {
  const [plugins, setPlugins] = useState(props.stylisPlugins);
  const contextStyleSheet = useStyleSheet();

  const styleSheet = useMemo(() => {
    let sheet = contextStyleSheet;

    if (props.sheet) {
      sheet = props.sheet;
    } else if (props.target) {
      sheet = sheet.reconstructWithOptions({ target: props.target }, false);
    }

    if (props.disableCSSOMInjection) {
      sheet = sheet.reconstructWithOptions({ useCSSOMInjection: false });
    }

    return sheet;
  },
  [props.disableCSSOMInjection, props.sheet, props.target]);

  const stylis = useMemo(() =>
    createStylisInstance({
      options: { prefix: !props.disableVendorPrefixes },
      plugins,
    }),
    [props.disableVendorPrefixes, plugins]
  );

  useEffect(() => {
    if (!shallowequal(plugins, props.stylisPlugins)) setPlugins(props.stylisPlugins);
  },
  [props.stylisPlugins]);

  return (
    <StyleSheetContext.Provider value={styleSheet}>
      <StylisContext.Provider value={stylis}>

        {process.env.NODE_ENV !== 'production'
          ? React.Children.only(props.children)
          : props.children}
      </StylisContext.Provider>
    </StyleSheetContext.Provider>
  );
}
```

```
import StyleSheet from '../sheet';
import { type Stringifier } from '../types';
import throwStyledError from '../utils/error';
import {
  masterStylis } from './StyleSheetManager';

export default class Keyframes {
  id: string;

  name: string;

  rules: string;

  constructor(name: string, rules: string) {
    this.name = name;
    this.id = `sc-keyframes-${name}`;
    this.rules = rules;
  }

  inject = (styleSheet: StyleSheet, stylisInstance: Stringifier = masterStylis) => {
    const resolvedName = this.name + stylisInstance.hash;

    if (!styleSheet.hasNameForId(this.id, resolvedName)) {
      styleSheet.insertRules(
        this.id,
        resolvedName,
        stylisInstance(this.rules, resolvedName, '@keyframes')
      );
    }
  };

  toString = () => {
    return throwStyledError(12,
      String(this.name));
  };

  getName(stylisInstance: Stringifier = masterStylis) {
    return this.name + 
```
const uppercaseCheck = /([A-Z])/; const uppercasePattern = /([A-Z])/g; const msPattern = /^ms-\./; const prefixAndLowerCase = (char: string): string => `-${char.toLowerCase()}`;

export default function hyphenateStyleName(string: string): string {
  return uppercaseCheck.test(string)
    ? string
      .replace(uppercasePattern, prefixAndLowerCase)
      .replace(msPattern, '-ms-')
    : string;
}

export const isStatelessFunction = (chunk: any): boolean => (chunk instanceof Keyframes) || (chunk.styledComponentId) || (chunk.styledComponentId)

export default function addUnitIfNeeded(name: string, value: any): any {
  if (value == null || typeof value === 'boolean' || value === '') {
    return '';
  }

  if (typeof value === 'number' && value !== 0 && !('name in unitless')) {
    return `${value}px`;
  }

  return String(value).trim();
}

export default function isStatelessFunction(test: any): boolean {
  return (typeof test === 'function' && !test.prototype
    && isFunction(test)
    && test.prototype.isReactComponent)

  ) {
    if (Array.isArray(chunk)) {
      return flatten(chunk, executionContext, styleSheet, stylisInstance)
    }

    if (isFalsish(chunk)) {
      return '';
    }

    /* Handle other components */
    if (isStyledComponent(chunk)) {
      return `.${chunk.styledComponentId}`;
    }

    /* Either execute or defer the function */
    if (isFunction(chunk)) {
      if (isStatelessFunction(chunk) && executionContext)
        return chunk;
    } else {
      if (process.env.NODE_ENV !== 'production' &&
        isElement(chunk)) {
        // eslint-disable-next-line no-console
        console.warn(`
          ${getComponentName(chunk)} is not a styled component and cannot be referred to via component selector. See https://www.styled-components.com/docs/advanced#referring-to-other-components for more details.`
        );
    }

    /* Handle objects */
    return isPlainObject(chunk) ? objToCssArray(chunk) : chunk.toString();
}
const addTag = arg => {
  if (Array.isArray(arg)) {
    // eslint-disable-next-line no-param-reassign
    arg.isCss = true;
  }
  return arg;
};

export default function css(styles: Styles, ...interpolations: Array<Interpolation>): RuleSet {
  if (isFunction(styles) || isPlainObject(styles)) {
    // $FlowFixMe
    return addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));
  }

  if (interpolations.length === 0 && styles.length === 1 && typeof styles[0] === 'string') {
    // $FlowFixMe
    return styles;
  }

  return addTag(flatten(interleave(styles, interpolations)));}

import { EMPTY_OBJECT } from './empties';

type Props = {
  theme?: any,
};

export default (props: Props, providedTheme: any, defaultProps: any = EMPTY_OBJECT) => {
  return (props.theme !== defaultProps.theme && props.theme) || providedTheme || defaultProps.theme;
}

console.log(escape('some identifier'));
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const isObject = val => {
  return (typeof val === 'function' || (typeof val === 'object' &
    val !== null &
    !Array.isArray(val)));
};

const isValidKey = key => {
  return key !== '__proto__' &
    key !== 'constructor' &
    key !== 'prototype';
};

function mixin(target, val, key) {
  const obj = target[key];
  if (isObject(val) &
    isObject(obj)) {
    mixinDeep(obj, val);
  } else {
    target[key] = val;
  }
}

export default function mixinDeep(target, ...rest) {
  for (const obj of rest) {
    if (isObject(obj)) {
      for (const key in obj) {
        if (isValidKey(key)) {
          mixin(target, obj[key], key);
        }
      }
    }
  }

  return target;
}

// @flow
import React, { useContext, useMemo, type Element, type Context } from
'react';
import throwStyledError from '../utils/error';
import isFunction from '../utils/isFunction';

export type
Theme = { [key: string]: mixed };

type ThemeArgument = Theme | ((outerTheme?: Theme) => Theme);

export type
Props = {
  children?: Element<any>,
  theme: ThemeArgument,
};

export const ThemeContext: Context<Theme | void> = React.createContext();

export const ThemeConsumer = ThemeContext.Consumer;

function mergeTheme(theme: ThemeArgument, outerTheme?: Theme): Theme {
  if (!theme) {
    return throwStyledError(14);
  }

  if (isFunction(theme)) {
    const mergedTheme = theme(outerTheme);

    if (process.env.NODE_ENV !== 'production' &
      (mergedTheme === null ||
       Array.isArray(mergedTheme) || typeof mergedTheme !== 'object')
    ) {
      return throwStyledError(7);
    }

    return mergedTheme;
  }

  if (Array.isArray(theme) || typeof theme !== 'object') {
    return throwStyledError(8);
  }

  return outerTheme ? { ...outerTheme, ...theme } : theme;
}

/**
 * Provide a
 * theme to an entire react component tree via context
 */
export default function ThemeProvider(props: Props) {

  const outerTheme = useContext(ThemeContext);
  const themeContext = useMemo(() =>
    mergeTheme(props.theme, outerTheme), [props.theme, outerTheme]);

  if (!props.children) {
    return null;
  }

  return <ThemeContext.Provider
    value={themeContext}>{props.children}</ThemeContext.Provider>;
}

// @flow
import validAttr from
'@emotion/is-prop-valid';
import hoist from 'hoist-non-react-statics';
import React, { createElement, type Ref,
useContext, useDebugValue } from 'react';
import { SC_VERSION } from '../constants';
import type {
  Attrs,
  IStyledComponent,
  IStyledStatics,
  RuleSet,
  ShouldForwardProp,
  Target,
} from '../types';
import { checkDynamicCreation } from '../utils/checkDynamicCreation';
import determineTheme from '../utils/determineTheme';
import { EMPTY_ARRAY, EMPTY_OBJECT } from '../utils/empties';
import escape from '../utils/escape';
import generateComponentId from '../utils/generateComponentId';
import generateDisplayName from '../utils/generateDisplayName';
import getComponentName from '../utils/getComponentName';
import isFunction from '../utils/isFunction';
import isStyledComponent from '../utils/isStyledComponent';
import isTag from '../utils/isTag';
import joinStrings from '../utils/joinStrings';
import merge from '../utils/mixinDeep';
import ComponentStyle from './ComponentStyle';
import { useStyleSheet, useStylis } from './StyleSheetManager';
import { ThemeContext } from './ThemeProvider';

const identifiers = {};

/* We
 * depend on components having unique IDs
 * &function generateId(displayName?: string, parentComponentId?:
 * string) {
 *  const name = typeof displayName !== 'string' ?
 *    'string' : escape(displayName);
 *  // Ensure that no
 *  // displayId can lead to duplicate componentIds &
 *  identifiers[name] = (identifiers[name] || '0') + 1; &
 *  return generateId
 *  // SC_VERSION gives us isolation between multiple
 *  // runtimes on the page at once &

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nested shouldForwardProp calls

shouldForwardProp = (prop, filterFn, elementToBeCreated) =>


(prop, elementToBeCreated) =>

(filterFn, elementToBeCreated) =>

(options.shouldForwardProp: any):

ShouldForwardProp((prop, filterFn, elementToBeCreated));

else // eslint-disable-next-line prefer-const

shouldForwardProp = ((target: any): IStyledComponent).shouldForwardProp: any)

in

const componentStyle = new ComponentStyle

(rules: rulesId, styledComponentId: styledComponentId, isTargetStyledComp: isTargetStyledComp)

((target: Object).componentStyle: ComponentStyle: undefined): undefined // statically styled-components don't need to build an execution context object; // and shouldn't be increasing the number of class names

const isStatic = componentStyle.isStatic &

&

&

attr.length === 0); // forwardRef creates a new interim component, which we'll take advantage of

* instead of extending ParentComponent to create _another_ interim class

let WrappedStyledComponent: IStyledComponent

const forwardRef = (props, ref) =>

(React.forwardRef((React.forwardRef: any): IStyledComponent));

WrappedStyledComponent.attrs = finalAttrs;

WrappedStyledComponent.componentStyle = componentStyle;

WrappedStyledComponent.displayName = displayName;

WrappedStyledComponent.shouldForwardProp = shouldForwardProp;

// this static is used to preserve the cascade of static classes for component selector

// purposes; this is especially important with usage of the css prop

WrappedStyledComponent.foldedComponentIds = isTargetStyledComp


: EMPTY_ARRAY;

WrappedStyledComponent.styledComponentId = styledComponentId;

// fold the underlying StyledComponent target up since we folded the styles

WrappedStyledComponent.target = isTargetStyledComp

? WrappedComponent

: (target: any): IStyledComponent).target;

WrappedComponent.withComponent = function withComponent(tag: Target) {

const { componentId: previousComponentId, optionsToCopy } = options;

const newComponentId = previousComponentId &

&

&

\$\{previousComponentId\}.$\{isTag(tag) ? tag : escape(getComponentName(tag))\};

const newOptions = {

...optionsToCopy,

attrs: finalAttrs;

componentId: newComponentId;

};

Object.defineProperty(WrappedStyledComponent, 'defaultProps', {

get() {

return this._foldedDefaultProps;

},

set(obj) {

this._foldedDefaultProps = isTargetStyledComp


: obj;

});


```
// @flow
import StyleSheet from '../sheet';
import type { RuleSet, Stringifier } from
...
const styled = (tag: Target) => constructWithOptions(StyledComponent, tag);

// Shorthands for all valid HTML Elements/indomElements.forEach(domElement => {
styled[domElement] =
`<${domElement} style='${parsedIdString}'>
  <Component />
</${domElement}>`
` +
            '  <Component />'
        );
        warningSeen = true;
        generatedClasses =
```
```
import GlobalStyle from '../models/GlobalStyle';
import { useStyleSheet, useStylis } from '../models/StyleSheetManager';
import { ThemeContext } from '../models/ThemeProvider';
import type { Interpolation } from '../types';
import checkDynamicCreation from '../utils/checkDynamicCreation';
import determineTheme from '../utils/determineTheme';
import generateComponentId from '../utils/generateComponentId';
import css from './css';

declare var __SERVER__: boolean;

type GlobalStyleComponentPropsType = Object;

export default function createGlobalStyle(
  strings: Array<string>,
  ...interpolations: Array<Interpolation>
) {
  const rules = css(strings, ...interpolations);
  const styledComponentId = `sc-global-${generateComponentId(JSON.stringify(rules))}`;

  const globalStyle = new GlobalStyle(rules, styledComponentId);

  if (process.env.NODE_ENV !== 'production') {
    checkDynamicCreation(styledComponentId);
  }

  function GlobalStyleComponent(props: GlobalStyleComponentPropsType) {
    const styleSheet = useStyleSheet();
    const stylis = useStylis();
    const theme = useContext(ThemeContext);
    const instanceRef = useRef(styleSheet.allocateGSInstance(styledComponentId));

    const instance = instanceRef.current;

    if (process.env.NODE_ENV !== 'production' && React.Children.count(props.children)) {
      // eslint-disable-next-line no-console
      console.warn(`The global style component ${styledComponentId} was given child JSX.
createGlobalStyle does not render children.`);
    }

    if (process.env.NODE_ENV !== 'production' && rules.some(rule => typeof rule === 'string' && rule.indexOf('@import') !== -1)) {
      // eslint-disable-next-line no-console
      console.warn(`Please do not use @import CSS syntax in createGlobalStyle
at this time, as the CSSOM APIs we use in production do not handle it well. Instead, we recommend using a library
such as react-helmet to inject a typical <link> meta tag to the stylesheet, or simply embedding it manually in your
index.html <head> section for a simpler app.`);
    }

    if (styleSheet.server) {
      renderStyles(instance, props, styleSheet, theme, stylis);
    }

    if (!__SERVER__) {
      // this conditional is fine because it is
      // compiled away for the relevant builds during minification,
      // resulting in a single unguarded hook call
      // eslint-disable-next-line react-hooks/rules-of-hooks
      useLayoutEffect(() => {
        if (!styleSheet.server) {
          renderStyles(instance, props, styleSheet, theme, stylis);
          return () => globalStyle.removeStyles(instance, styleSheet);
        }
      }, [instance, props, styleSheet, theme, stylis]);
    }

    return null;
  }

  function renderStyles(instance, props, styleSheet, theme, stylis) {
    if (globalStyle.isStatic) {
      globalStyle.renderStyles(instance, STATIC_EXECUTION_CONTEXT, styleSheet, stylis);
    } else {
      const context = {
        ...props,
        theme: determineTheme(props, theme, GlobalStyleComponent.defaultProps),
      };

      globalStyle.renderStyles(instance, context, styleSheet, stylis);
    }
  }

  // $FlowFixMe
  return React.memo(GlobalStyleComponent);
}
Higher Order Components */animport withTheme from './hoc/withTheme';

/* Import hooks */
import useTheme from './hooks/useTheme';

declare var __SERVER__: boolean;

/* Warning if there are several instances of styled-components */
if (process.env.NODE_ENV !== 'production' &&
  process.env.NODE_ENV !== 'test' && typeof window !== 'undefined') {
  window[__styled-components-init__] += 1;
}

/* Export everything */
export * from './secretInternals';
export {
  createGlobalStyle,
  css,
  isStyledComponent,
  keyframes,
  ServerStyleSheet,
  StyleSheetConsumer,
  StyleSheetContext,
  StyleSheetManager,
  ThemeConsumer,
  ThemeContext,
  ThemeProvider,
  useTheme,
  SC_VERSION as version,
  withTheme,
};
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get a char and divide by alphabet-length */
  for (x = Math.abs(code); x > charsLength; x = (x / charsLength) | 0)
  {
    name = getAlphabeticChar(x % charsLength) + name;\n  }\n\nreturn (getAlphabeticChar(x % charsLength) + name).replace(AD_REPLACER_R, '$1-$2');\n},"/* \n  */
}* @flow
/* eslint-disable */

export const SEED = 5381;

// When we have separate strings it's useful to run a progressive\n// version of djb2 where we pretend that\n// we're still looping over\n\n// [...]
const MAX_SMI = 1 << 31 - 1;

const reverseRegister: Map<number, string> = new Map();

export const resetGroupIds = () => {
  groupIDRegister = new Map();
  reverseRegister = new Map();
  nextFreeGroup = 1;
};

export const getGroupForId = (id: string): number => {
  if (groupIDRegister.has(id)) {
    return (groupIDRegister.get(id) as any).id;
  }

  const nextFreeGroup = reverseRegister.size + 1;
  const names = sheet.names.get(id);
  const rules = tag.getGroup(id);
  if (!names || !names.size) return;

  const selector = `${SC_ATTR}.g${group} [id="${id}"]`;

  let content = '';
  if (names !== undefined) {
    names.forEach(name => {
      if (name.length > 0) {
        content += `${name},`;
      }
    });
  }

  // NOTE: It's easier to collect rules and have the marker
  // after the actual rules to simplify the
  // rehydration
  css += `${rules}${selector}{content:"${content}"}${SPLITTER}`;
};

const rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {
  const names = content.split(',');
  let name;

  for (let i = 0, l = names.length; i < l; i++) {
    // eslint-disable-next-line
    if ((name = names[i])) {
      sheet.registerName(id, name);
    }
  }
};

const rehydrateSheetFromTag = (sheet: Sheet, style: HTMLStyleElement) => {
  const parts = (style.textContent || '').split(SPLITTER);
  const rules: string[] = [];

  for (let i = 0, l = parts.length; i < l; i++) {
    const part = parts[i].trim();
    if (!part) continue;

    const marker = part.match(MARKER_RE);

    if (marker) {
      const group = parseInt(marker[1], 10) | 0;
      const id = marker[2];

      if (group !== 0) {
        // Rehydrate componentId to group index mapping
        setGroupForId(id, group);
        // Rehydrate names and rules
        // looks like: data-
        // styled.g11[id="idA"][content="nameA,"]
        rehydrateNamesFromContent = sheet, id, string, content) => {
      }
    } else {
      rules.push(part);
    }
  }
};

export const rehydrateSheet = (sheet: Sheet) => {
  const nodes = document.querySelectorAll(SELECTOR);

  for (let i = 0, l = nodes.length; i < l; i++) {
    const node = ((nodes[i]: any): HTMLStyleElement);
    if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE) {
      rehydrateSheetFromTag(sheet, node);
      if (node.parentNode) {
        node.parentNode.removeChild(node);
      }
    }
  }
};

const getNonce = () => {
  return typeof window !== 'undefined'
    ? typeof window.__webpack_nonce__ !== 'undefined'
      ? window.__webpack_nonce__
    : null
};

export default getNonce;

const findLastStyleTag = (target: HTMLElement): void | HTMLStyleElement => {
  const { childNodes } = target;

  for (let i = childNodes.length; i >= 0; i--) {
    const child = ((childNodes[i]: any): ?HTMLElement);
    if (child && child.nodeType === ELEMENT_TYPE &&
        child.hasAttribute(SC_ATTR)) {
      return ((child: any): HTMLStyleElement);
    }
  }

  return undefined;
};

const declareVar = (name: string) => {
  // eslint-disable-next-line
  const n = new declareVar(name);
  // @flow
  // needs type assertion
  return n;
};

const reconst = (n: any) => {
  // eslint-disable-next-line
  for (let i in n) {
    // @flow
    if (i === 'toString') {
      return (n: any);
    }
  }
  // eslint-disable-next-line
  return new declareVar(n);
};

const _ = reconst(declareVar);
const parent = target || head;
const style = document.createElement('style');

const prevStyle = findLastStyleTag(parent);
const nextSibling = prevStyle !== undefined ? prevStyle.nextSibling : null;

style.setAttribute(SC_ATTR, SC_ATTR_ACTIVE);
style.setAttribute(SC_ATTR_VERSION, SC_VERSION);

if (nonce) style.setAttribute('nonce', nonce);

parent.insertBefore(style, nextSibling);

return style;

/** Get the CSSStyleSheet instance for a given style element */
export const getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {
  if (tag.sheet) {
    return (tag.sheet: any): CSSStyleSheet;
  }

  // Avoid Firefox quirk where the style element might not have a sheet
  const { styleSheets } = document;
  for (let i = 0, l = styleSheets.length; i < l; i++) {
    const sheet = styleSheets[i];
    if (sheet.ownerNode === tag) {
      return (sheet: any): CSSStyleSheet;
    }
  }

  throwStyledError(17);
  return (undefined: any);
};

// @flow
/* eslint-disable no-use-before-define */

import { makeStyleTag, getSheet } from './dom';
import type { SheetOptions, Tag } from './types';

// Create a CSSStyleSheet-like tag depending on the environment */
export const makeTag = ({ isServer, useCSSOMInjection, target }: SheetOptions): Tag => {
  if (isServer) {
    return new VirtualTag(target);
  } else if (useCSSOMInjection) {
    return new CSSOMTag(target);
  } else {
    return new TextTag(target);
  }

export class CSSOMTag implements Tag {
  element: HTMLStyleElement;

  sheet: CSSStyleSheet;

  length: number;

  constructor(target?: HTMLElement) {
    const element = (this.element = makeStyleTag(target));
    element.appendChild(document.createTextNode(''));
    this.sheet = getSheet(element);
    this.length = 0;

    this.insertRule(index: number, rule: string): boolean {
      try {
        this.sheet.insertRule(rule, index);
        this.length++;
        return true;
      } catch (_) {
        return false;
      }
    }

    deleteRule(index: number): void {
      this.sheet.deleteRule(index);
      this.length--;
    }

    getRule(index: number): string {
      if (index < this.length) {
        return this.sheet.cssRules[index].cssText;
      } else {
        return '';
      }
    }
}

/** A Tag that emulates the CSSStyleSheet API but uses text nodes */
export class TextTag implements Tag {
  element: HTMLStyleElement;

  nodes: NodeList<Node>;

  length: number;

  constructor(target?: HTMLElement) {
    const element = (this.element = makeStyleTag(target));
    this.nodes = element.childNodes;
    this.length = 0;

    this.insertRule(index: number, rule: string): boolean {
      if (index <= this.length && index >= 0) {
        const node = document.createTextNode(rule);
        const refNode = this.nodes[index];
        this.element.insertBefore(node, refNode || null);
        this.length++;
        return true;
      } else {
        return false;
      }
    }

    deleteRule(index: number): void {
      this.element.removeChild(this.nodes[index]);
      this.length--;
    }

    getRule(index: number): string {
      if (index <= this.length) {
        return this.nodes[index].textContent;
      } else {
        return ''; // Avoid IE11 quirk where cssText is inaccessible on some invalid rules
      }
    }
}

/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */
export class VirtualTag implements Tag {
  rules: string[];

  length: number;

  constructor(_target?: HTMLElement) {
    this.rules = [];
    this.length = 0;

    this.insertRule(index: number, rule: string): boolean {
      if (index <= this.length && index >= 0) {
        this.rules.splice(index, 0, rule);
        this.length++;
        return true;
      } else {
        return false;
      }
    }

    deleteRule(index: number): void {
      this.rules.splice(index, 1);
      this.length--;
    }

    getRule(index: number): string {
      if (index <= this.length) {
        return this.rules[index];
      } else {
        return ''; // Avoid IE11 quirk where cssText is inaccessible on some invalid rules
      }
    }
}

// @flow
import { DISABLE_SPEEDY, IS_BROWSER } from '../constants';
import { EMPTY_OBJECT } from '../utils/empties';
import { makeGroupedTag } from './GroupedTag';
import { getGroupForId } from './GroupIDAllocator';
import { outputSheet, rehydrateSheet } from './Rehydration';
import { makeTag } from './Tag';
import type { GroupedTag, Sheet, SheetOptions } from './types';

let SHOULD_REHYDRATE = IS_BROWSER;

let globalStylesAllocationMap = new Map<string, Set<string>>();

const defaultOptions: SheetOptions = {
  isServer: !IS_BROWSER,
  useCSSOMInjection: false,
};

let server;

// Contains the main stylesheet logic for stringification and caching */
export const StyleSheet: SheetOptions => {
  return (tag: HTMLStyleElement): StyleSheet => {
    if (tag.sheet) {
      return (tag.sheet: any): StyleSheet;
    }

    // Avoid Firefox quirk where the style element might not have a sheet
    const { styleSheets } = document;
    for (let i = 0, l = styleSheets.length; i < l; i++) {
      const sheet = styleSheets[i];
      if (sheet.ownerNode === tag) {
        return (sheet: any): StyleSheet;
      }
    }

    throwStyledError(17);
    return (undefined: any);
  };

  // Avoid Edge bug where empty style elements don't create sheets
  element.appendChild(document.createTextNode(''));

  this.sheet = getSheet(element);
  this.length = 0;

  this.insertRule(index: number, rule: string): boolean {
    try {
      this.sheet.insertRule(rule, index);
      this.length++;
      return true;
    } catch (_) {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.sheet.deleteRule(index);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.sheet.cssRules[index].cssText;
    } else {
      return ''; // Avoid IE11 quirk where cssText is inaccessible on some invalid rules
    }
  }
}

class VirtualTag implements Tag {
  rules: string[];

  length: number;

  constructor(_target?: HTMLElement) {
    this.rules = [];
    this.length = 0;

    this.insertRule(index: number, rule: string): boolean {
      if (index <= this.length && index >= 0) {
        this.rules.splice(index, 0, rule);
        this.length++;
        return true;
      } else {
        return false;
      }
    }

    deleteRule(index: number): void {
      this.rules.splice(index, 1);
      this.length--;
    }

    getRule(index: number): string {
      if (index <= this.length) {
        return this.rules[index];
      } else {
        return ''; // Avoid IE11 quirk where cssText is inaccessible on some invalid rules
      }
    }
}

// @flow
import { DISABLE_SPEEDY, IS_BROWSER } from '../constants';
import { EMPTY_OBJECT } from '../utils/empties';
import { makeGroupedTag } from './GroupedTag';
import { getGroupForId } from './GroupIDAllocator';
import { outputSheet, rehydrateSheet } from './Rehydration';
import { makeTag } from './Tag';
import type { GroupedTag, Sheet, SheetOptions } from './types';

let SHOULD_REHYDRATE = IS_BROWSER;

let globalStylesAllocationMap = new Map<string, Set<string>>();

const defaultOptions: SheetOptions = {
  isServer: !IS_BROWSER,
  useCSSOMInjection: false,
};

let server;
/**
 * MIT License
 *
 * Copyright (c) 2016 Sultan Tarimo
 *
 * Permission is hereby granted, free of charge, to any person obtaining a copy of
 * the Software and associated documentation files (the "Software"),
 * to deal in the Software without restriction,
 * including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 * sell
 * copies of the Software and to permit persons to whom the Software is furnished to do so, subject to the following
 * conditions:
 *
 * The above copyright notice and this permission notice shall be included in all
 * copies or
 * substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT
 * WARRANTY OF ANY KIND, EXPRESS
 * OR IMPLIED INCLUDING BUT NOT LIMITED TO THE
 * WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE
 * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE
 * FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 * WHETHER IN AN ACTION OF CONTRACT,
 * TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
 * THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 */
/* eslint-disable */

export default function(insertRule) {
  const delimiter = '/*|*/';
  const needle = `${delimiter}}`;

  function toSheet(block) {
    if (block) {
      try {
        insertRule(`${block}}`);
      } catch (e) {}
    }
  }

  return function ruleSheet(
    context,
    content,
    selectors,
    parents,
    line,
    column,
    length,
    ns,
    depth,
    at
  ) {
    switch (context) {
      // property
      case 1:
        // @import
        if (depth === 0 && content.charCodeAt(0) === 64) return insertRule(`${content};`), '';
        break;
      // selector
      case 2:
        if (ns === 0) return content + delimiter;
        break;
      // at-rule
      case 3:
        switch (ns) {
          // @font-face, @page
          case 102:
          case 112:
            return insertRule(selectors[0] + content), '';
          default:
            return content + (at === 0 ? delimiter : '');
        }
    }
    content.split(needle).forEach(toSheet);
  };
}

import Stylis from '@emotion/stylis';
import { type Stringifier } from '../types';
import { EMPTY_ARRAY, EMPTY_OBJECT } from './empties';
import throwStyledError from './error';
import { phash, SEED } from './hash';
import insertRulePlugin from './stylisPluginInsertRule';

const COMMENT_REGEX = /^\s*\/\/.*$/gm;
const COMPLEX_SELECTOR_PREFIX = [':', '[', '.', '#'];

type StylisInstanceConstructorArgs = {
  style?: string;
  context?: string;
  selector?: string;
  parent?: string;
  length?: number;
  name?: string;
  depth?: number;
  at?: number;
  sheet?: Sheet;
  result?: string;
  comment?: string;
  content?: string;
  @type?: void | GroupedTag;

  tag: void | GroupedTag;

  /** Register a group ID to give it an index */
  static registerId(id: string): number {
    return getGroupForId(id) + 1;
  }

  /** Lazily initialise a GroupedTag when it's actually needed */
  getTag(): GroupedTag {
    return this.tag || (this.tag = makeGroupedTag(makeTag({}))); // NOTE: This does not clear the names, since it's only used during SSR
  }

  /** Check whether a name is known for caching */
  hasNameForId(id: string, name: string): boolean {
    return this.names.has(id) && (this.names.get(id): any).has(name);
  }

  /** Mark a group's name as known for caching */
  registerName(id: string, name: string) {
    getGroupForId(id);
    if (this.names.has(id)) {
      (this.names.get(id): any).add(name);
    } else {
      this.names.set(id, new Set());
      this.names.add(name);
    }
  }

  /** Insert rules which also marks the name as known */
  insertRules(id: string, name: string, rules: string[]) {
    this.registerName(id, name);
    this.getTag().insertRules(getGroupForId(id), rules);
  }

  /** Clears the entire tag which deletes all rules but not its names */
  clearTag() {
    // NOTE: This does not clear the names, since it's only used during SSR
    this.tag = undefined;
  }

  /** Outputs the current sheet as a CSS string with markers for SSR */
  toString(): string {
    return outputSheet(this);
  }
}
```javascript
= {
  options?: Object,
  plugins?: Array<Function>,
} =>

export default function createStylisInstance({
  options = EMPTY_OBJECT,
  plugins = EMPTY_ARRAY,
}: StylisInstanceConstructorArgs =
  EMPTY_OBJECT) {

  const stylis = createStylisInstance(options); // Wrap `insertRulePlugin` to build a list of rules,

  // then make it easier to hook into the existing SSR architecture
  let parsingRules = [];

  // eslint-disable-next-line consistent-return
  const returnRulesPlugin = (context) => {
    if (context === -2) {
      const parsedRules = parsingRules;
      parsingRules = [];
      return parsedRules;
    }
  };

  const parseRulesPlugin = (rule) => {
    parsingRules.push(rule);
  };

  let _componentId: string;
  let _selector: string;
  let _selectorRegexp: RegExp;

  const selfReferenceReplacer = (match, offset, string) => {
    if (
      // do not replace the first occurrence if it is complex (has a modifier)
      (offset === 0 ?
        COMPLEX_SELECTOR_PREFIX.indexOf(string.slice(-selector.length)) === -1 : true) &&
      // no consecutive self refs (.b.b); that is a precedence boost and treated differently
      !string.match(_consecutiveSelfRefRegExp)
    ) {
      return `.${_componentId}`;
    }
    return match;
  };

  const selfReferenceReplacementPlugin = (context, _, selectors) => {
    if (context === 2 && selectors.length > 0 && selectors[0].lastIndexOf(_selector) > 0) {
      // eslint-disable-next-line no-param-reassign
      selectors[0] = selectors[0].replace(_selectorRegexp, selfReferenceReplacer);
    }
  };

  stylis.use([...plugins, selfReferenceReplacementPlugin, parseRulesPlugin, returnRulesPlugin]);

  function stringifyRules(css, selector, prefix, componentId = '&') {
    const flatCSS = css.replace(COMMENT_REGEX, '');
    const cssStr = selector && prefix ? `${prefix} ${selector} { ${flatCSS} }` : flatCSS;

    // stylis has no concept of state to be passed to plugins
    // but since JS is single-threaded, we can rely on that to ensure
    // these properties stay in sync with the current stylis run

    _componentId = componentId;
    _selector = selector;
    _selectorRegexp = new RegExp(`\\${_selector}\\b`, 'g');
    _consecutiveSelfRefRegExp = new RegExp(`(\\${_selector}\\b){2,}`);

    return stylis(prefix || !selector ? '' : selector, cssStr);
  }

  stringifyRules.hash = plugins.length
    ? plugins.reduce((acc, plugin) => {
        if (!plugin.name) {
          throwStyledError(15);
        }
        return phash(acc, plugin.name);
      }, SEED)
    : '';

  return stringifyRules;
}

// @flow
import React, { type Context, type Node, useContext, useEffect, useMemo, useState } from 'react';
import shallowEqual from 'shallowequal';
import StyleSheet from '../sheet';
import type { Stringifier } from '../types';
import createStylisInstance from '../utils/stylis';

export const StyleSheetContext: Context<StyleSheet | void> = React.createContext();
export const StyleSheetConsumer = StyleSheetContext.Consumer;
export const StylisContext: Context<Stringifier | void> = React.createContext();
export const StylisConsumer = StylisContext.Consumer;

export const masterSheet: StyleSheet = new StyleSheet();
export const masterStylis: Stringifier = createStylisInstance();

export function useStyleSheet(): StyleSheet {
  return useContext(StyleSheetContext) || masterSheet;
}

export function useStylis(): Stringifier {
  return useContext(StylisContext) || masterStylis;
}

export default function StyleSheetManager(props: Props) {
  const [plugins, setPlugins] = useState(props.stylisPlugins);
  const contextStyleSheet = useStyleSheet();

  const styleSheet = useMemo(() => {
    let sheet = contextStyleSheet;

    if (props.sheet) {
      // eslint-disable-next-line prefer-destructuring
      sheet = props.sheet;
    } else if (props.target) {
      sheet = sheet.reconstructWithOptions({
        target: props.target,
      }, false); // eslint-disable-next-line consistent-return
    }

    if (props.disableCSSOMInjection) {
      sheet = sheet.reconstructWithOptions({useCSSOMInjection: false});
    }

    return sheet;
  }, [props.disableCSSOMInjection, props.stylisPlugins, props.target]);

  const stylis = useMemo(() => {
    return createStylisInstance({
      options: props.disableVendorPrefixes ? EMPTY_OBJECT : props.stylisOptions,
      plugins: props.stylisPlugins,
    });
  }, [props.stylisOptions, props.stylisPlugins, props.stylisTarget]);

  useEffect(() => {
    if (!shallowEqual(plugins,
      props.stylisPlugins)) {
      setPlugins(props.stylisPlugins);
    }
  }, [props.stylisPlugins]);

  return React.createContext().export
}````
props.stylisPlugins)) setPlugins(props.stylisPlugins);\n  ], [props.stylisPlugins]);\n  return (\n    <StyleSheetContext.Provider value={styleSheet}>
      <StylisContext.Provider value={stylis}>
        {process.env.NODE_ENV !== 'production' ? React.Children.only(props.children) : props.children}
      </StylisContext.Provider>
    </StyleSheetContext.Provider>
  );
}

export default class Keyframes {
  id: string;

  name: string;

  rules: string;

  constructor(name: string, rules: string) {
    this.name = name;
    this.id = `sc-keyframes-${name}`;
    this.rules = rules;
  }

  inject = (styleSheet: StyleSheet, stylisInstance: Stringifier = masterStylis) => {
    const resolvedName = this.name + stylisInstance.hash;

    if (!styleSheet.hasNameForId(this.id, resolvedName)) {
      styleSheet.insertRules(
        this.id,
        resolvedName,
        stylisInstance(this.rules,
          resolvedName, '@keyframes')
      );
    }
  };

  toString = () => {
    return throwStyledError(12,
      String(this.name));
  };

  getName(stylisInstance: Stringifier = masterStylis) {
    return this.name + stylisInstance.hash;
  }
}

/**
 * inlined version of
 * https://github.com/facebook/fbjs/blob/master/packages/fbjs/src/core/hyphenateStyleName.js
 */

const uppercaseCheck = /([A-Z])/;
const uppercasePattern = /([A-Z])/g;
const msPattern = /^ms-/;
const prefixAndLowerCase = (char: string): string => `-${char.toLowerCase()}`;

/**
 * Hyphenates a camelcased CSS property name, for example:
 *   > hyphenateStyleName('backgroundColor')
 *   < "background-color"
 *   > hyphenateStyleName('MozTransition')
 *   < "-moz-transition"
 *   > hyphenateStyleName('msTransition')
 *   < "-ms-transition"
 * As Modernizr suggests
 * (http://modernizr.com/docs/#prefixed), an 'ms' prefix is converted to '-ms-'.
 *
 * @param {string} string
 * @return {string}
 */
export default function hyphenateStyleName(string: string): string {
  return uppercaseCheck.test(string)
    ? string
      .replace(uppercasePattern, prefixAndLowerCase)
      .replace(msPattern, '-ms-')
    : string;
}

/**
 * It's falsish not falsy because 0 is allowed.
 */
const isFalsish = chunk => chunk === undefined || chunk === null || chunk === false || chunk === '';

export const objToCssArray = (obj: Object, prevKey?: string): Array<string | Function> => {
  const rules = [];

  for (const key in obj) {
    if (!obj.hasOwnProperty(key) || isFalsish(obj[key])) continue;

    if ((Array.isArray(obj[key]) && obj[key].isCss) || isFunction(obj[key])) {
      rules.push(`${hyphenate(key)}:`, obj[key], ';');
    } else if (isPlainObject(obj[key])) {
      rules.push(...objToCssArray(obj[key], key));
    } else {
      rules.push(`${hyphenate(key)}:`, addUnitIfNeeded(key, obj[key]) || '0');
    }
  }

  return prevKey ? `[${prevKey} {`, ...rules, '}]' : rules;
}

  if (Array.isArray(chunk)) {
    const ruleSet = [];

    for (let i = 0, len = chunk.length, result; i < len; i += 1) {
      result = flatten(chunk[i], executionContext, styleSheet, stylisInstance);
    }

    return ruleSet;
  }

  if (isFalsish(chunk)) {
    return '';
  }

  /* Handle other components */
  if (isStyledComponent(chunk)) {
    return `.${chunk.styledComponentId}`;
  }

  /* Either execute or defer the function */
  if (isFunction(chunk)) {
    if (isStatelessFunction(chunk) && executionContext)
      \n      else if (isPlainObject(chunk))
        \n        else
  ...
```
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```javascript
function message, line, column, source, file, plugin) {
    /**
     * @member {string} - Always equal to the path to the broken file
     * @param {string} [plugin] - PostCSS plugin name, if error came from plugin
     */

class CssSyntaxError {
  /**
   * @param {string} message - error message
   * @param {number} [line] - source line of the error
   * @param {number} [column] - source column of the error
   * @param {string} [source] - source code of the broken file
   * @param {string} [file] - absolute path to the broken file
   * @param {string} [plugin] - PostCSS plugin name, if error came from plugin
   */

  constructor(message, line, column, source, file, plugin) {
    /**
     * @member {string} - Always equal to the path to the broken file
     * @param {string} [plugin] - PostCSS plugin name, if error came from plugin
     */

class CssSyntaxError {
  /**
   * @param {string} message - error message
   * @param {number} [line] - source line of the error
   * @param {number} [column] - source column of the error
   * @param {string} [source] - source code of the broken file
   * @param {string} [file] - absolute path to the broken file
   * @param {string} [plugin] - PostCSS plugin name, if error came from plugin
   */

  constructor(message, line, column, source, file, plugin) {
    /**
     * @member {string} - Always equal to the path to the broken file
     * @param {string} [plugin] - PostCSS plugin name, if error came from plugin
     */

```
"CssSyntaxError". You should always check error type
by 'error.name === 'CssSyntaxError'" instead of
'error instanceof CssSyntaxError', because
npm could have several PostCSS versions.

`require` error:

```javascript
function capitalize(str) {
  return str[0].toUpperCase() + str.slice(1);
}

class Stringifier {
  beforeClose: '\n',
  beforeComment: '\n',
  after: '\n',
  emptyBody: '',
  commentLeft: ' ',
  commentRight: '*/

const defaultRaw = {
  colon: ': ',
  indent: '    ',
  beforeDecl: '\n',
  beforeRule: '\n',
  beforeOpen: ' ',

  error.file       //=> 'a.sass'
   */
}

export default CssSyntaxError;

Tip: Input object is the
this
   *                         object to get PostCSS input source.
   *
   * @example
   * error.input.file //=> 'a.css'

From previous tool, PostCSS will use origin
   *                         (for example, Sass) source. You can use
Input object with PostCSS internal information
   *                         about input file. If input has source map
   *

`Error.captureStackTrace`:

```javascript
if (Object.prototype.toString.call(err) === '[object Error]

error //=> 'a.sass' * @example

error.file ///=> 'a.css' * @member

error.input.file ///=> 'a.css'
```
Open Source Used In Cisco Telemetry Broker On Prem 1.3.1 5660

inside a node’s string that should be highlighted as the source of the warning.

* @param

* @param {string} opts.word   - a word inside a node’s string that should be highlighted as the source of the error

* @param {number} opts.index  - an index inside a node’s string that

returns a CssSyntaxError instance containing the original position
* of the node in the source, showing line and column numbers and also
* a small excerpt to facilitate debugging.

* @param

* @param [string] opts.plugin - plugin name that created this error.
PostCSS will set it automatically.

* @param [string] opts.word - a word inside a node’s string that should

be highlighted as the source of the warning

* @param [number] opts.index - an index inside a node’s string that

should

* be highlighted as the source of the error

* @param [string] message - error description

* @param [object] [opts] - options

* @param [string] opts.plugin - plugin name that created this error.
PostCSS will set it automatically.

* @param

* @param [string] opts.word - a word inside a node’s string that

should
/**
   * Returns the next child of the node's parent.
   * Returns `undefined` if the current node is the last child.
   * @param {Node} otherNode - node that will be before current
   * node in the node and its children.
   * The resulting cloned node and its (cloned) children will have
   * a clean parent and code style properties.
   * @return {Node} - new node
   */
  moveBefore(otherNode) {
    this.cleanRaws(this.root() === otherNode.root());
    this.remove();
    otherNode.parent.insertBefore(otherNode, this);
    return this;
  }

  /**
   * Removes the node from its current parent and
   * cleans the parent properties
   * from the node and its children.
   * @return {Node} - new node
   */
  remove() {
    if (this.parent) {
      this.parent.removeChild(this);
    }
    this.parent = undefined;
    return this;
  }

  /**
   * Returns a CSS string representing the node.
   * @param {stringifier|syntax} [stringifier] - a syntax to use
   * in string generation
   * @return {string} CSS string of this node
   */
  toString(stringifier = stringify) {
    if (stringifier.stringify) stringifier = stringifier.stringify;
    let result = '';
    stringifier(this, i => {
      result += i;
    });
    return result;
  }

  /**
   * Returns a clone of the node.
   * The resulting cloned node and its (cloned) children will have
   * a clean parent and code style properties.
   * @return {Node} - new node
   */
  clone(overrides = {}) {
    const cloned = cloneNode(this);
    for (const name in
      { number } opts.index - an index inside a node's string that should
  * be highlighted as the source of the warning
  * * @return [Warning] created warning object
  * @example
  * const plugin = postcss.plugin('postcss-deprecated', () => {
  *   return (root, result) => {
  *     root.walkDecls('bad', decl => {
  *       decl.warn(result, 'Deprecated property bad');
  *     });
  *   }
  * });
  */
  warn(result, text, opts)
Every parser saves its own properties, but the default CSS parser uses:

- `important`: the content of the important statement, if it is not just an "!important" element.
- `PostCSS cleans selectors, declaration values and at-rule parameters in the origin input, but stores origin content in raws properties. As such, if you don't change a declaration's value, PostCSS will use the raw value with comments. It stores the symbols before the node. It also stores `*` and `.` symbols before the declaration (IE hack). `*` and `.` for rules, or last parameter or `*` and `.` for at-rules. `*` and `.` `semicolons`: contains true if the last child has an (optional) semicolon. `*` `afterName`: the space between the at-rule name and its parameters. `*` `left`: the space symbols between the text and the comment's text. `*` `right`: the space symbols between the comment's text and the `>` symbol.

- `rule parameters, or declaration values` will be stored in the `raws` properties explained above.

- `@extend`: and `@memberof` properties.
- `@memberof Declaration` and `@memberof Node`
- `@memberof Declaration` and `@memberof Node` important - true if the declaration has an important annotation.
- `@memberof Declaration` and `@memberof Node` set _value(val) { warnOnce('Node#_value was deprecated. Use Node#raws.value'); return this.raws.value; }

- `@memberof Node` set _important(val) { warnOnce('Node#_important was deprecated. Use Node#raws.important'); return this.raws.important; }

- `@memberof Node` set _value(val) { warnOnce('Node#_value was deprecated. Use Node#raws.value'); return this.raws.value; }

- `@memberof Node` set _important(val) { warnOnce('Node#_important was deprecated. Use Node#raws.important'); return this.raws.important; }

- `@memberof Node` set _value(val) { warnOnce('Node#_value was deprecated. Use Node#raws.value'); return this.raws.value; }

- `@memberof Node` set _important(val) { warnOnce('Node#_important was deprecated. Use Node#raws.important'); return this.raws.important; }

- `@memberof Node` set _value(val) { warnOnce('Node#_value was deprecated. Use Node#raws.value'); return this.raws.value; }

- `@memberof Node` set _important(val) { warnOnce('Node#_important was deprecated. Use Node#raws.important'); return this.raws.important; }

- `@memberof Node` set _value(val) { warnOnce('Node#_value was deprecated. Use Node#raws.value'); return this.raws.value; }

- `@memberof Node` set _important(val) { warnOnce('Node#_important was deprecated. Use Node#raws.important'); return this.raws.important; }

- `@memberof Node` set _value(val) { warnOnce('Node#_value was deprecated. Use Node#raws.value'); return this.raws.value; }

- `@memberof Node` set _important(val) { warnOnce('Node#_important was deprecated. Use Node#raws.important'); return this.raws.important; }

- `@memberof Node` set _value(val) { warnOnce('Node#_value was deprecated. Use Node#raws.value'); return this.raws.value; }

- `@memberof Node` set _important(val) { warnOnce('Node#_important was deprecated. Use Node#raws.important'); return this.raws.important; }

- `@memberof Node` set _value(val) { warnOnce('Node#_value was deprecated. Use Node#raws.value'); return this.raws.value; }

- `@memberof Node` set _important(val) { warnOnce('Node#_important was deprecated. Use Node#raws.important'); return this.raws.important; }

- `@memberof Node` set _value(val) { warnOnce('Node#_value was deprecated. Use Node#raws.value'); return this.raws.value; }

- `@memberof Node` set _important(val) { warnOnce('Node#_important was deprecated. Use Node#raws.important'); return this.raws.important; }
rule.append({ prop: 'color', value: 'black' });
// declaration\n * rule.append({ text: 'Comment' })
//
comment\n *\n * root.append('a {}');\n * root.first.append('color: black; z-index: 1');\n */\n append(...children)
{\n children.forEach(child => {\n
const nodes = this.normalize(child, this.last);\n
nodes.forEach(node =>
this.nodes.push(node));\n });\n return this;\n }\n\n /**\n * Inserts new nodes to the end of the container.\n *\n
* @param {...(Node|object|string|Node[])} children - new nodes\n *\n * @return {Node} this node for methods
chain\n *\n * @example\n * const decl1 = postcss.decl({ prop: 'color', value: 'black' });\n * const decl2 =
postcss.decl({ prop: 'background-color', value: 'white' });\n * rule.prepend(decl1, decl2);\n *\n * root.append({
name: 'charset', params: '\"UTF-8\"' }); // at-rule\n * root.append({ selector: 'a' });
// rule\n *
rule.append({ prop: 'color', value: 'black' });
// declaration\n * rule.append({ text: 'Comment' })
//
comment\n *\n * root.append('a {}');\n * root.first.append('color: black; z-index: 1');\n */\n prepend(...children)
{\n children = children.reverse();\n children.forEach(child => {\n
const nodes = this.normalize(child,
this.first, 'prepend').reverse();\n
nodes.forEach(node => this.nodes.unshift(node));\n
for (const id in
this.indexes) {\n
this.indexes[id] = this.indexes[id] + nodes.length;\n
}\n });\n return this;\n }\n\n
cleanRaws(keepBetween) {\n super.cleanRaws(keepBetween);\n if (this.nodes) {\n
this.nodes.forEach(node
=> node.cleanRaws(keepBetween));\n }\n }\n\n /**\n * Insert new node before old node within the container.\n
*\n * @param {Node|number} exist
- child or child’s index.\n * @param {Node|object|string|Node[]} add
- new node\n *\n * @return {Node} this node for methods chain\n *\n * @example\n * rule.insertBefore(decl,
decl.clone({ prop: '-webkit-' + decl.prop }));\n */\n insertBefore(exist, add) {\n exist = this.index(exist);\n\n
const type = exist === 0 ? 'prepend' : false;\n const nodes = this.normalize(add, this.nodes[exist], type).reverse();\n
nodes.forEach(node => this.nodes.splice(exist, 0, node));\n\n let index;\n for (const id in this.indexes) {\n
index = this.indexes[id];\n
if (exist <= index) {\n
this.indexes[id] = index + nodes.length;\n
}\n }\n\n
return this;\n }\n\n /**\n * Insert new node after old node within the container.\n *\n * @param {Node|number}
exist
- child or child’s index\n * @param {Node|object|string|Node[]} add - new node\n *\n * @return
{Node} this node for methods chain\n */\n insertAfter(exist, add) {\n exist = this.index(exist);\n\n const nodes
= this.normalize(add, this.nodes[exist]).reverse();\n nodes.forEach(node => this.nodes.splice(exist + 1, 0,
node));\n\n let index;\n for (const id in this.indexes) {\n
index = this.indexes[id];\n
if (exist < index) {\n
this.indexes[id] = index + nodes.length;\n
}\n }\n\n return this;\n }\n\n remove(child) {\n if (typeof child
!== 'undefined') {\n
warnOnce('Container#remove is deprecated. ' + 'Use Container#removeChild');\n
this.removeChild(child);\n } else {\n
super.remove();\n }\n return this;\n }\n\n /**\n * Removes node
from the container and cleans the parent properties\n * from the node and its children.\n *\n * @param
{Node|number} child - child or child’s index\n *\n * @return {Node} this node for methods chain\n *\n *
@example\n * rule.nodes.length //=> 5\n * rule.removeChild(decl);\n * rule.nodes.length //=> 4\n *
decl.parent
//=> undefined\n */\n removeChild(child) {\n child = this.index(child);\n
this.nodes[child].parent = undefined;\n this.nodes.splice(child, 1);\n\n let index;\n for (const id in this.indexes)
{\n
index = this.indexes[id];\n
if (index >= child) {\n
this.indexes[id] = index - 1;\n
}\n }\n\n return
this;\n }\n\n /**\n * Removes all children from the container\n * and cleans their parent properties.\n *\n *
@return {Node} this node for methods chain\n *\n * @example\n * rule.removeAll();\n * rule.nodes.length
//=> 0\n */\n removeAll() {\n this.nodes.forEach(node => (node.parent = undefined));\n this.nodes = [];\n
return this;\n }\n\n /**\n * Passes all declaration values within the container that match pattern\n * through
callback, replacing those values with the returned result\n * of callback.\n *\n * This method is useful if you
are using a custom unit or function\n * and need to iterate through all values.\n *\n * @param
{string|RegExp} pattern
- replace pattern\n * @param {object} opts
- options to speed up the
search\n * @param {string|string[]} opts.props - an array of property names\n * @param {string} opts.fast
- string that’s used\n *
to narrow down values and speed up\n
the regexp search\n * @param {function|string} callback - string to replace pattern\n *
or callback that returns a new\n *
value.\n *
The callback will
receive\n *
the same arguments as those\n *
passed to a
function parameter\n *
of `String#replace`.\n *\n * @return {Node} this node for

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```javascript
import Warning from './warning';

/**
 * @typedef {object}
 * @property {string} plugin - The name of the plugin that created
 * this warning. When you call `{@link Node#warn}` `@example
 * `postcss-important` /*/ * * @memberof Warning
 * @memberof Warning#
 */
 *
 * @example
 * warning.plugin //=>
 * `postcss-important` /*/ * * @memberof Warning
 * @memberof {Node} node - Contains the CSS node that caused
 * the warning /*/ * * @example
 * warning.node.toString() //=>`color: white !important` /*/ * *
 * @example
 * newexport default Warning;
 */

/**
 * Provides the result of the PostCSS transformations /*/ * * @memberof Warning
 * @memberof Warning#
 */

/ * * A Result instance is returned by
 */

/**
 * @memberof Warning#
 */

* @example

```
result.css === result.content;\n */\n get content() {\n return this.css;\n }\n}\n\nexport default Result;\n","//
@flow\nimport stringify from './stringify';\nimport warnOnce from './warn-once';\nimport Result from
'./result';\nimport parse from './parse';\n\nfunction isPromise(obj) {\n return typeof obj === 'object' && typeof
obj.then === 'function';\n}\n\n/**\n * @callback onFulfilled\n * @param {Result} result\n */\n\n/**\n * @callback
onRejected\n * @param {Error} error\n */\n\n/**\n * A Promise proxy for the result of PostCSS transformations.\n
*\n * A `LazyResult` instance is returned by {@link Processor#process}.\n *\n * @example\n * const lazy =
postcss([cssnext]).process(css);\n */\nclass LazyResult {\n constructor(processor, css, opts) {\n this.stringified =
false;\n this.processed = false;\n\n let root;\n if (typeof css === 'object' && css.type === 'root') {\n
root =
css;\n } else if (css instanceof LazyResult || css instanceof Result) {\n
root = css.root;\n
if (css.map) {\n
if (typeof opts.map === 'undefined') opts.map = {};\n
if (!opts.map.inline) opts.map.inline = false;\n
opts.map.prev = css.map;\n
}\n } else {\n
let parser = parse;\n
if (opts.syntax) parser =
opts.syntax.parse;\n
if (opts.parser) parser = opts.parser;\n
if (parser.parse) parser = parser.parse;\n\n
try
{\n
root = parser(css, opts);\n
} catch (error) {\n
this.error = error;\n
}\n }\n\n this.result = new
Result(processor, root, opts);\n }\n\n /**\n * Returns a {@link Processor} instance, which will be used\n * for
CSS transformations.\n * @type {Processor}\n */\n get processor() {\n return this.result.processor;\n }\n\n
/**\n * Options from the {@link Processor#process} call.\n * @type {processOptions}\n */\n get opts() {\n
return this.result.opts;\n }\n\n /**\n * Processes input CSS through synchronous plugins, converts `Root`\n * to a
CSS string and returns {@link Result#css}.\n *\n * This property will only work with synchronous plugins.\n *
If the processor contains any asynchronous plugins\n * it will throw an error. This is why this method is only\n *
for debug purpose, you should always use {@link LazyResult#then}.\n *\n * @type {string}\n * @see
Result#css\n */\n get css() {\n return this.stringify().css;\n }\n\n /**\n * An alias for the `css` property. Use it
with syntaxes\n * that generate non-CSS output.\n *\n * This property will only work with synchronous
plugins.\n * If the processor contains any asynchronous plugins\n * it will throw an error. This is why this method
is only\n * for debug purpose, you should always use {@link LazyResult#then}.\n *\n * @type {string}\n *
@see Result#content\n */\n get content() {\n return this.stringify().content;\n }\n\n /**\n * Processes input
CSS through synchronous plugins\n * and returns {@link Result#map}.\n *\n * This property will only work
with synchronous plugins.\n * If the processor contains any asynchronous plugins\n * it will throw an error. This
is why this method is only\n * for debug purpose, you should always use {@link LazyResult#then}.\n *\n *
@type {SourceMapGenerator}\n * @see Result#map\n */\n get map() {\n return this.stringify().map;\n }\n\n
/**\n * Processes input CSS through synchronous plugins\n * and returns {@link Result#root}.\n *\n * This
property will only work with synchronous plugins. If the processor\n * contains any asynchronous plugins it will
throw an error.\n *\n * This is why this method is only for debug purpose,\n * you should always use {@link
LazyResult#then}.\n *\n * @type {Root}\n * @see Result#root\n */\n get root() {\n return this.sync().root;\n
}\n\n /**\n * Processes input CSS through synchronous plugins\n * and returns {@link Result#messages}.\n *\n
* This property will only work with synchronous plugins. If the processor\n * contains any asynchronous plugins
it will throw an error.\n *\n * This is why this method is only for debug purpose,\n * you should always use
{@link LazyResult#then}.\n *\n * @type {Message[]}\n * @see Result#messages\n */\n get messages() {\n
return this.sync().messages;\n }\n\n /**\n * Processes input CSS through synchronous plugins\n * and calls
{@link Result#warnings()}.\n *\n * @return {Warning[]} warnings from plugins\n */\n warnings() {\n return
this.sync().warnings();\n }\n\n /**\n * Alias for the {@link LazyResult#css} property.\n *\n * @example\n *
lazy + '' === lazy.css;\n *\n * @return {string} output CSS\n */\n toString() {\n return this.css;\n }\n\n /**\n
* Processes input CSS through synchronous and asynchronous plugins\n * and calls `onFulfilled` with a Result
instance. If a plugin throws\n * an error, the `onRejected` callback will be executed.\n *\n * It implements
standard Promise API.\n *\n * @param {onFulfilled} onFulfilled - callback will be executed\n *
when all plugins will finish work\n * @param {onRejected} onRejected - callback will be execited on any
error\n *\n * @return {Promise} Promise API to make queue\n *\n * @example\n *
postcss([cssnext]).process(css).then(result => {\n * console.log(result.css);\n * });\n */\n then(onFulfilled,
onRejected) {\n return this.async().then(onFulfilled, onRejected);\n }\n\n /**\n * Processes input CSS through

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CSS file. You should always set `to`\n* to generate correct source
maps.\n* @property \{parser\} parser - function to generate AST by string\n* @property \{stringifier\} stringifier - class to generate string by AST\n* @property \{syntax\} syntax - object with `parse` and `'stringify`\n* @property \{object\} map - source map options\n* @property \{boolean\} map.inline - does source map should\n* be embedded in the output\n*

CSS as a base64-encoded\n* comment\n* @property

{string|object|false|function} map.prev - source map content\n* processing step\n* (for example, Sass)\n* PostCSS will try to find\n* previous map\n* automatically, so you\n* could disable it by\n* `'false` value.\n* @property \{boolean\} map.sourcesContent - does PostCSS should set\n* the origin content to map\n* @property \{string|object|false|function\} map.annotation - does

PostCSS should set\n* annotation comment to map\n* @property \{string\}

Contains plugins to process CSS. Create one `Processor` instance,\n* initialize its plugins, and then use that instance on numerous CSS files.\n* @example\n* constructor(plugins = [])
*
```
\{ \n  /**
   * @member {string} - Current PostCSS version.
   */
  this.version = '5.2.0';

  /**
   * @member {pluginFunction[]} - Plugins added to this processor.\n   */
  this.plugins = this.normalize(plugins);
```
*

Asynchronous plugins should return a `Promise` instance.\n* @param \{Plugin|pluginFunction|Processor\} plugin - PostCSS plugin\n* or {@link Processor} with plugins
*

Plugin function. PostCSS will pass the function a `@link Root`\n* as the first argument and current `@link Result` instance\n* as the second.\n* An object with a `postcss` method. PostCSS will use that method\n* as described in #2.\n* Another `@link Processor` instance. PostCSS will copy plugins\n* from that instance into this one.\n* Plugins can also be added by passing them as arguments when creating\n* a `postcss` instance (see `@link postcss(plugins)`).\n* Asynchronous plugins should return a `Promise` instance.\n
```
\{ \n  /**
   * @param {Plugin|pluginFunction|Processor} plugin - PostCSS plugin\n   * or (@link Processor)\n   */
  withPlugin(\n    plugin\n  )\n```
*

Parses source CSS and returns a `@link LazyResult` Promise proxy.\n* Because some plugins can be asynchronous it doesn’t make\n* any transformations. Transformations will be applied\n* in the `@link LazyResult` methods.\n
```
\{ \n  /**
   * any object with a `toString` method, like a Buffer.\n   */
   // Optionally, send a \{@link Result\} instance and the processor will\n   */
   take the \{@link Root\} from it.\n```
*

Optionally, send a `@link Result` instance and the processor will\n*

```javascript
const processor = postcss(
  [autoprefixer, precss]);
processor.process(a);\n```
*

```javascript
processor.process(b);\n```
*

```javascript
processor.process(c);\n```
*
styleObject = transformDeclPairs(declPairs, ["borderRadius", "borderWidth", "borderColor", "borderStyle"], );
const styles = StyleSheet.create(
  [generated: styleObject, ]);
generated[hash] = styles.generated;
return InlineStyle;
/* eslint-disable */
/**
  mixin-deep; https://github.com/jonschlinkert/mixin-deep
  Inlined such that it will be
  consistently transpiled to an IE-compatible syntax.

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  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
  IN THE SOFTWARE.
*/

const isObject = val => {
  return (
    typeof val === 'function' || (typeof val === 'object' && val !== null && !Array.isArray(val))
  );
};

const isValidKey = key => {
  return key !== '__proto__' && key !== 'constructor' && key !== 'prototype';
};

function mixin(target, val, key) {
  const obj = target[key];
  if (isObject(val) && isObject(obj)) {
    mixinDeep(obj, val);
  } else {
    target[key] = val;
  }
}

export default function mixinDeep(target, ...rest) {
  for (const obj of rest) {
    if (isObject(obj)) {
      for (const key in obj) {
        if (isValidKey(key)) {
          mixin(target, obj[key], key);
        }
      }
    }
  }

  return target;
}

// @flow
import { EMPTY_OBJECT } from './empties';

type Props = {
  theme?: any,
};

export default (props: Props, providedTheme: any, defaultProps: any = EMPTY_OBJECT) => {
  return (props.theme !== defaultProps.theme && props.theme) || providedTheme || defaultProps.theme;
};

// @flow
import type { IStyledComponent } from '../types';

export default function isTag(target: $PropertyType<IStyledComponent, 'target'>): boolean {
  return (
    typeof target === 'string' &&
    (process.env.NODE_ENV !== 'production' ? target.charAt(0) === target.charAt(0).toLowerCase() : true)
  );
}

export type Theme = { [key: string]: mixed };

export type ThemeArgument = Theme | ((outerTheme?: Theme) => Theme);

type Props = {
  children?: Element<any>,
  theme: ThemeArgument,
};

export const ThemeContext: Context<Theme | void> = React.createContext();

export const ThemeConsumer = ThemeContext.Consumer;

function mergeTheme(theme: ThemeArgument, outerTheme?: Theme): Theme {
  if (!theme) {
    return throwStyledError(14);
  }

  if (isFunction(theme)) {
    const mergedTheme = theme(outerTheme);

    if (process.env.NODE_ENV !== 'production' &&
      mergedTheme === null || Array.isArray(mergedTheme) || typeof mergedTheme !== 'object') {
      return throwStyledError(7);
    }

    return mergedTheme;
  }

  if (Array.isArray(theme) || typeof theme !== 'object') {
    return throwStyledError(8);
  }

  return outerTheme ? { ...outerTheme, ...theme } : theme;
}

/**
 * Provide a theme to an entire react component tree via context
 */
export default function ThemeProvider(props: Props) {
  const outerTheme = useContext(ThemeContext);
  const themeContext = useMemo(() => mergeTheme(props.theme, outerTheme), [props.theme, outerTheme]);

  if (!props.children) {
    return null;
  }

  return <ThemeContext.Provider value={themeContext}>{props.children}</ThemeContext.Provider>;
}

// @flow
import React, { useContext, useMemo, type Element, type Context } from 'react';
import throwStyledError from '../utils/error';
import isFunction from '../utils/isFunction';

const ThemeContext: Context<Theme | void> = React.createContext();

export const ThemeConsumer = ThemeContext.Consumer;

function mergeTheme(theme: ThemeArgument, outerTheme?: Theme): Theme {
  if (!theme) {
    return throwStyledError(14);
  }

  if (isFunction(theme)) {
    const mergedTheme = theme(outerTheme);

    if (process.env.NODE_ENV !== 'production' &&
      mergedTheme === null || Array.isArray(mergedTheme) || typeof mergedTheme !== 'object') {
      return throwStyledError(7);
    }

    return mergedTheme;
  }

  if (Array.isArray(theme) || typeof theme !== 'object') {
    return throwStyledError(8);
  }

  return outerTheme ? { ...outerTheme, ...theme } : theme;
}

/**
 * Provide a theme to an entire react component tree via context
 */
export default function ThemeProvider(props: Props) {
  const outerTheme = useContext(ThemeContext);
  const themeContext = useMemo(() => mergeTheme(props.theme, outerTheme), [props.theme, outerTheme]);

  if (!props.children) {
    return null;
  }

  return <ThemeContext.Provider value={themeContext}>{props.children}</ThemeContext.Provider>;
}
'../utils/mixinDeep';
import determineTheme from '../utils/determineTheme';
import { EMPTY_ARRAY, EMPTY_OBJECT } from '../utils/empties';
import generateDisplayName from '../utils/generateDisplayName';
import isFunction from '../utils/isFunction';
import isTag from '../utils/isTag';
import isStyledComponent from '../utils/isStyledComponent';
import { ThemeConsumer } from './ThemeProvider';

import type { Theme } from './ThemeProvider';
import type { Attrs, RuleSet, Target } from '../types';

// NOTE: no hooks available for react-native yet; if the user makes use of ThemeProvider or StyleSheetManager things will break.

// Validator defaults to true if not in HTML/DOM env
const validAttr = () => true;

class StyledNativeComponent extends Component<*, *> {
  root: ?Object;

  attrs = {};

  render() {
    return (<
      ThemeConsumer>
        {
          const {
            $as: transientAsProp,
            as: renderAs,
            forwardedComponent,
            forwardedAs,
            forwardedRef,
            testID,
            style = [],
            ...props
          } = this.props;

          const {
            defaultProps, target, shouldForwardProp } = forwardedComponent;
          const elementToBeRendered = this.attrs.$as || this.attrs.as || transientAsProp || renderAs || target;

          const generatedStyles = this.generateAndInjectStyles(determineTheme(this.props, null) || EMPTY_OBJECT, this.props);

          const style = typeof style === 'function' ? (state) => generatedStyles.concat(style(state)) : generatedStyles.concat(style);

          return createElement(elementToBeRendered, {
            ...props,
            style,
            testID,
            ...attrs
          });
        }
      </ThemeConsumer>
    );
  }

  buildExecutionContext(theme: ?Object, props: Object, attrs: Attrs) {
    const context = { ...props, theme };

    if (!attrs.length) return context;

    this.attrs = {};

    attrs.forEach(attrDef => {
      let resolvedAttrDef = attrDef;
      let attr;
      let key;

      if (isFunction(resolvedAttrDef)) {
        resolvedAttrDef = resolvedAttrDef(context);
      }

      /* eslint-disable guard-for-in */
      for (key in resolvedAttrDef) {
        attr = resolvedAttrDef[key];
        this.attrs[key] = attr;
        context[key] = attr;
      }
      /* eslint-enable */
    });

    return context;
  }

  generateAndInjectStyles(theme: any, props: any) {
    const { inlineStyle } = props.forwardedComponent;

    const executionContext = this.buildExecutionContext(theme, props, props.forwardedComponent.attrs);

    return inlineStyle.generateStyleObject(executionContext);
  }

  setNativeProps(nativeProps: Object) {
    if (this.root !== undefined) {
      // $FlowFixMe
      this.root.setNativeProps(nativeProps);
    } else if (process.env.NODE_ENV !== 'production') {
      // eslint-disable-next-line no-console
      console.warn(`setNativeProps was called on a Styled Component wrapping a stateless functional component.`);
    }
  }
}

export default (InlineStyle: Function) => {
  const createStyledNativeComponent = (target: Target, options: Object, rules: RuleSet) => {
    const {
      attrs = EMPTY_ARRAY,
      displayName = generateDisplayName(target),
      ParentComponent = StyledNativeComponent,
    } = options;

    const isClass = !isTag(target);
    const isTargetStyledComp = isStyledComponent(target);

    // $FlowFixMe
    const WrappedStyledNativeComponent = (props, ref) => (<
      ParentComponent
        {...props}
    />
    );

    const finalAttrs =
      target.shouldForwardProp
      ? (props, ref) => {
        // $FlowFixMe
        // compose nested shouldForwardProp calls
        shouldForwardProp = (props, filterFn, elementToBeCreated) =>
    //
target.shouldForwardProp(prop, filterFn, elementToBeCreated) &&
      options.shouldForwardProp(prop, filterFn, elementToBeCreated);
    } else {
      // eslint-disable-next-line prefer-destructuring
      shouldForwardProp = target.shouldForwardProp;
    }

    /**
     * forwardRef creates a new interim component, which we'll take advantage of * instead of extending ParentComponent to
     * create _another_ interim class
     */

    WrappedStyledNativeComponent.attrs = finalAttrs;
    WrappedStyledNativeComponent.displayName = displayName;
    WrappedStyledNativeComponent.displayStyle = new InlineStyle();
    WrappedStyledNativeComponent.defaultProps = isTargetStyledComp ?
      target.defaultProps : target;
    WrappedStyledNativeComponent.shouldForwardProp = shouldForwardProp;
    WrappedStyledNativeComponent.withComponent = function withComponent(tag: Target) {
      const { displayName: _, componentId: __, ...optionsToCopy } = options;
      const newOptions = {
        ...optionsToCopy,
        attrs: finalAttrs,
        ParentComponent,
      };
      return createStyledNativeComponent(tag, newOptions, rules);
    };

    Object.defineProperty(WrappedStyledNativeComponent, 'defaultProps', {
      get() {
        return this._foldedDefaultProps;
      },

      set(obj) {
        // $FlowFixMe
        this._foldedDefaultProps = isTargetStyledComp ? merge({}, target.defaultProps, obj) : obj;
      },
    });

    if (isClass) {
      hoist(WrappedStyledNativeComponent, (target: any), {
        attrs: true,
        displayName: true,
        shouldForwardProp: true,
        inlineStyle: true,
        styledComponentId: true,
        target: true,
        withComponent: true,
      });
    }

    return WrappedStyledNativeComponent;
  }

  return createStyledNativeComponent;
};

// @flow
import type { Interpolation } from '../types';

export default (strings: Array<string>, interpolations: Array<Interpolation>): Array<Interpolation> => {
  const result = [strings[0]];
  for (let i = 0, len = interpolations.length; i < len; i += 1) {
    result.push(interpolations[i], strings[i + 1]);
  }
  return result;
};

// @flow
import interleave from '../utils/interleave';
import isPlainObject from '../utils/isPlainObject';
import { EMPTY_ARRAY } from '../utils/empties';
import isFunction from '../utils/isFunction';
import flatten from '../utils/flatten';
import type { Interpolation, RuleSet, Styles } from '../types';

const addTag = arg => {
  if (Array.isArray(arg)) {
    // eslint-disable-next-line no-param-reassign
    arg.isCss = true;
  }
  return arg;
};

export default function css(styles: Styles, ...interpolations: Array<Interpolation>): RuleSet {
  if (isFunction(styles) || isPlainObject(styles)) {
    // $FlowFixMe
    return addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));
  }

  if (interpolations.length === 0
    && styles.length === 1 && typeof styles[0] === 'string') {
    // $FlowFixMe
    return styles;
  }

  // $FlowFixMe
  return addTag(flatten(interleave(styles, interpolations)));
}

// @flow
import { isValidElementType } from 'react-is';
import css from './css';
import throwStyledError from '../utils/error';
import { EMPTY_OBJECT } from '../utils/empties';

import type { Target } from '../types';

export default function constructWithOptions(
  componentConstructor: Function,
  tag: Target,
  options: Object = EMPTY_OBJECT
) {
  if (!isValidElementType(tag)) {
    return throwStyledError(1, String(tag));
  }

  const templateFunction = (...args) => componentConstructor(tag, options, css(...args));

  templateFunction.attrs = attrs =>
    constructWithOptions(componentConstructor, tag, {
      ...options,
      attrs: Array.prototype.concat(options.attrs, attrs).filter(Boolean),
    });

  return templateFunction;
}
'../utils/getComponentName';

// NOTE: this would be the correct signature:
// export default <Config: { theme?: any }, Instance>(
//  Component: AbstractComponent<Config, Instance>
// ): AbstractComponent<$Diff<Config,
// {{ theme?: any }}>{ theme?: any }, Instance>
//
// but the old build system tooling doesn't support the
// syntax

export default (Component: AbstractComponent<*, *>) => {
  // $FlowFixMe This should be
  const WithTheme = React.forwardRef<Config, Instance>
    Component => {
      const themeProp = determineTheme(props, theme, defaultProps);
      if (process.env.NODE_ENV !== 'production' && themeProp === undefined) {
        console.warn(
          `\[withTheme\] You are not using a ThemeProvider nor passing a theme prop or a
          theme in defaultProps in component class
        `);
      }

      return <Component {...props} theme={themeProp} ref={ref} />
    };

  hoistStatics(WithTheme, Component);

  WithTheme.displayName = `WithTheme(${getComponentName(Component)})`;

  return WithTheme;
};

// @flow
import { useContext } from 'react';
import { ThemeContext } from
  '/../models/ThemeProvider';

const useTheme = () => useContext(ThemeContext);

export default useTheme;

/* eslint-disable import/no-unresolved */
import _InlineStyle from
  '/../models/InlineStyle';
import _StyledNativeComponent from
  '/../models/StyledNativeComponent';

const reactNative = require('react-native');

const InlineStyle = _InlineStyle(reactNative.StyleSheet);
const StyledNativeComponent = _StyledNativeComponent(InlineStyle);
const styled = (tag: Target) =>
  constructWithOptions(StyledNativeComponent, tag);

/* Define a getter for each alias
 * which simply gets the reactNative component
 * and passes it to styled */
aliases.split(/\s+/m).forEach(alias =>

  Object.defineProperty(styled, alias, {
    enumerable: true,
    configurable: false,
    get() {
      return styled(reactNative[alias]);
    },
  })
);

export { css, isStyledComponent, ThemeProvider, ThemeConsumer,
  ThemeContext, withTheme, useTheme };
export default styled;
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AAf;Aacd,KAAD,MAcO;AAACL8D,MAAAA,KAAK,CAACL8D,MAAAA,KAAK,CAAClB,IAAN,CAAW+D,IAAX;AACD;AACF;AACF,CA5BD;;AASBA,AAAIA,IAAc,cAc,GAAG,SAAJbA,caAiB,CAAcKB,KAAD,EAkB;AAC9C,MAAmBn,KA
AK,GAAGC,QAAQ,CAAc,GAAC,gBAAt,CA0BzB,QAAiB,CAAd;::AEEA,OAkK,IAAI1F,CAAc,GAAG,CAAR,EA
AWS,E,CAAc,GAAG2C,KAAd,CAACbH,MAAb1B,EAkKdC,CAAc,GAAGsE,CAAtC,EAAYCIE,CAAc,EAAl C,EAAA8C,AAAc5C,QAAmOHi,IAAI,GAAKH,KAad,CAAcHl,CAAD,CAApB::AAPA,QAAXoH,IAAI,IAAIA,IA
AL,CAACC,YAAL,CAkKb/F,OAAlB,MAAA+N,B,MAAAa3,C,AAAMC,YAAY,GAAG,SAAlA,QAAlA,A;AACD;
AACF,CAPD;::AAJC,CAAC,GAAG2R,MAAAA,MACJeH,UAADie,GACDhD,MADkD,CAcJeH,UAADieE;::AAEgE,OA
AK,IAAI5H,CAAc,GAAG4H,UAuA,CAACbH,CAAD,CAAcG2F,QAAgD,CAAc,IAAI,CAAcT,EAaWCa,CAAC,EA
AzC,EAa6C,AAAc3C,QAAm6H,KAak,GAkKd,UAUU,CAAC5Hd,CAAd,CAAc1B;::AAAC,QAAl6H,KAAK,IA
IAA,KAkK,CAAc,CAAC,QAAn,KAAmBj,YAASB,AA4C,G,KAkK,CAAc,YAAN,CAAMbG,B,OAAnB,CAAhDb
AA6E;AAE3E,AAASuG,KAkT;::AAE2D,G,AAED,SAASO7B,SAAP,AAAd,C;::AAAaA;::AACA,AAAO,IA
AMgC,YAAY,GAAG,SAAFFA,YAae,CAAc1H,MAD,EAa4C,AAAC,E,MAAM2H,IAAI,GAAGK;QAAX,GCAeC
AAk,AACAbB,AACA,MAAM,CAAC,GAAG5H,MAAM2H,IAAI2H,IAAA2B,AAACkA,MAAbM,B,KAkK,GAAG,QAAX,
CAAcBb,AAAT,CAAuB,OAAbV,CAAD;::AACA,MAAMCM,SAAS,GAAG7T,GAAGkG,CAAc,CAAc,CAAc,
CAAc,GAAGD,SAAS,KAkKpC,SAAd,GAAl0bc,SAAS,CAAc,WAACpC,GAkKd,IAIAE;::AAAE,EAAlB,EA
AAA,KAkK,CAAc,CAAc,QAAn,KAAMbJ,YAAN,CAAMbG,B,OAAnB,EAAlB,CAAc5B,AACAIf,EAAAAA,KAA
K,CAAC6B,YAAN,CAAMbG,B,OAAnB,EAAlB,CAAc5B,AAAE,MAAM6G,KAAK,GAAGf,QAAX,QAAgEk,AAAIb,
AAEA,MAAIe,KAAl1A,EAAl9B,KAAK,CAAC6b,YAAN,CAAMbB,OAAnB,EAAl4B,KAkK5B,AAMElX,EEAAIA,
MAAM,CAACM,YAAP,CAAc5B,OAAbB,EAAl2B,WAAB3B,AAAN,CAAnO5B,KAAP,AAAcD,CajaBM;::AMPB;::
AAACA,AAAO,IAAMgC,QAAX,G,GAAX,kQAAgD,CAAc,QAAX,G,GAAG4H,WAAlB,GAAG,QAAX,CAAc,
CAAc,GAAG4H,WAAlB,GAAG,QAAX,CAAc,CAAc,GAAG4H,WAAlB,GAAG,QAAX,CAAc,CAAc,GAAG4H,
WAAlB,GAAG,QAAX,CAAc,CAAc,GAAG4H,WAAlB,GAAG,QAAX,CAAc,CAAc,GAAG4H,WAAlB,GAAG,QAAX,
Found in path(s):
* /opt/cola/permits/1341833602_1654812146.0913105/0/styled-components-5-3-3-3-tgz/package/native/dist/styled-components-native.esm.js.map

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

{"version":3,"file":"styled-components.js","sources":

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(\n  return (groupIdRegister.get(id): any):\n)\n  \n  while (reverseRegister.has(nextFreeGroup)) {
    nextFreeGroup++;
  }

  nextFreeGroup = group + 1;

  groupIDRegister.set(id, group);
  reverseRegister.set(group, id);

  return group;
};

export const
  getIdForGroup = (group: number): void | string => {
    return reverseRegister.get(group);
  };
Get the CSSStyleSheet instance for a given style element

```javascript
parent.insertBefore(style, nextSibling);

return style;
```

Create a CSSStyleSheet-like tag depending on the environment

```javascript
const getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {
  if (tag.sheet) {
    return (tag.sheet: any):
  }

  // Avoid Firefox quirk where the style element might not have a sheet
  const { styleSheets } = document;
  for (let i = 0, l = styleSheets.length; i < l; i++) {
    const sheet = styleSheets[i];
    if (sheet.ownerNode === tag) {
      return (sheet: any):
    }
  }

  throwStyledError(17);
  return (undefined: any);
};

/** Get the CSSStyleSheet instance for a given style */
export type CSSStyleSheet = (tag: HTMLStyleElement): CSSStyleSheet;

export class StyleSheet implements Sheet {
  gs: GlobalStylesAllocationMap;

  names: NamesAllocationMap;

  options: SheetOptions;

  server: boolean;

  tag: void | GroupedTag;

  /** Register a group ID to give it an index */
  static registerId(id: string): number {
    return getGroupForId(id);
  }

  constructor(
    options: SheetConstructorArgs = { isServer: !IS_BROWSER },
    globalStyles?: GlobalStylesAllocationMap = {},
    names?: NamesAllocationMap
  ) {

    this.options = {
      ...defaultOptions,
      ...options,
    };

    this.gs = globalStyles;
    this.names = new
```
Map(names); in this.server = !options.isServer; // We rehydrate once only and use the sheet that is created first
if (!this.server & & IS_BROWSER & & SHOULD_REHYDRATE) { in SHOULD_REHYDRATE = false; in rehydrateSheet(this); } in } in reconstructWithOptions(options: SheetConstructorArgs,
withNames?: boolean = true) { in return new StyleSheet( ...this.options, ...options ); in this.gs, in (withNames & & this.names) || undefined) ; in } in allocateGSInstance(id: string) { in return (this.gs[id] = (this.gs[id] || 0) + 1); } in } in /** Lazily initialises a GroupedTag for when it's actually needed */ in getTag(): GroupedTag { in return this.tag || (this.tag = makeGroupedTag(makeTag(this.options))); } in } in /** Check whether a name is known for caching */ in hasNameForId(id: string, name: string): boolean { in return this.names.has(id) & & (this.names.get(id): any).has(name); } in } in /** Mark a group's name as known for caching */ in registerName(id: string, name: string) { in getGroupForId(id); in } in (this.names.get(id): any).add(name); } in } in /** Insert new rules which also marks the name as known */ in insertRules(id: string, name: string, rules: string[]): StyleSheet; in } in } in getTag(); in insertRules(getGroupForId(id), rules); } in } in /** Clears all cached names for a given group ID */ in clearNames(id: string) { in if (this.names.has(id)) { in (this.names.get(id): any).clear(); } in } in /** Clears all rules for a given group ID */ in clearRules(id: string) { in this.getTag().clearGroup(getGroupForId(id)); in this.clearNames(id); } in /** Clears the entire tag which deletes all rules but not its names */ in clearTag() { in // NOTE: This does not clear the style, since it's only used during SSR
// so that we can continuously output only new rules
in this.tag = undefined; } in } in /** Outputs the current sheet as a CSS string with markers for SSR */ in toString(): string { in return outputSheet(this); } in } in

const AD_REPLACER_R = /(a)(d)/gi; in

/* This is the "capacity" of our alphabet i.e. 2x26 for all letters plus their
capitalised counterparts */ in
const charsLength = 52; in

/* start at 75 for 'a' until 'z' (25) and then start at 65 for
capitalised letters */ in
const getAlphabeticChar = (code: number): string =>
  String.fromCharCode(code + (code > 25 ? 39 : 97)); in

/* input a number, usually a hash and convert it to base-52 */ in
export default function generateAlphabeticName(code: number): string {
  let name = ''; in
  let x;

  /* get a char and divide by alphabet-length */ in
  for (x = Math.abs(code); x > charsLength; x = (x / charsLength) | 0) {
    name = getAlphabeticChar(x % charsLength) + name;
  }

  // NOTE: This replaces all non-letter characters with a dash
  return (getAlphabeticChar(x % charsLength) + name).replace(AD_REPLACER_R, '$1-$2'); in
}

// flow/* eslint-disable */

export const SEED = hash(SC_VERSION);

// When we have separate strings it's useful to run a progressive
// version of djb2 where we pretend that
// we're still looping over a single string
export const phash = (h: number, x: string): number => {
  let i = x.length;

  while (i) {
    h = (h * 33) ^ x.charCodeAt(--i);
  }

  return h;
}; in

// This is a djb2 hashing function
export const hash = (x: string): number => {
  return phash(SEED, x);
}; in

// @flow
import

SC_VERSION } from '../constants'; in
import StyleSheet from '../sheet'; in
import type { RuleSet, Stringifier } from

import flatten from '../utils/flatten'; in
import generateName from

import { hash, phash } from './utils/hash'; in
import isStaticRules from

import staticRules from

import { ComponentStyle } from

constructor: ComponentStyle { in
  this.isStatic = process.env.NODE_ENV === 'production' & &
  baseStyle: ComponentStyle; in
  this.componentId = componentId; in
  this.rules = rules; in
  this.staticRulesId = this.staticRulesId; in
  this.constructor: ComponentStyle; in
  this.staticRulesId: ComponentStyle; in
  this.rules = rules; in
  this.staticRulesId = this.staticRulesId; in
  this.isStatic = process.env.NODE_ENV === 'production' & &

  // SC_VERSION gives us isolation between multiple runtimes on the page at once
  // this is improved further with use of the babel plugin 'namespace'
  feature in
  this.baseHash = phash(SEED, componentId); in
  this.baseStyle = baseStyle; in
  // NOTE: This registers the componentId, which ensures a consistent order
  // for this component's styles compared to others
  StyleSheet.registerId(componentId); in
  this/* * Flattens a rule set into valid CSS */ in
  * Flattens a rule set into valid CSS
  * Hashes it, wraps the whole chunk in a .hash1234 */ in
  * Returns the hash to be injected on render() in
  * * \n  * generateAndInjectStyles(executionContext: Object, styleSheet: StyleSheet, stylis: Stringifier) { in
const { componentId } = this; in
  const names = []; in
  if (this.baseStyle) {

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insertRulePlugin from `./stylisPluginInsertRule`:

```javascript

import { Comment, types } from '@babel/core';
import { CommentNode, RawNode } from '@babel/types';
import type { File, Program, Node } from '@babel/core';
import '../../../../core/remote/edison/parser';
import '../../../../core/remote/edison/printer';
import '../../../../core/remote/edison/syntax';

export function insertRulePlugin(name: string) {
  return ({ file, ... }) => {
  }
}
```

The above code is from a Babel plugin that inserts a new function into the code being transformed. This is typically used to extend Babel's transformation capabilities by adding new plugins that can modify the AST of the input code. The `insertRulePlugin` function, in this case, inserts a new function call into the code that will be transformed by Babel. This is useful for adding custom transformations or adding new features to Babel's existing functionality.

The plugin is defined as a function that takes an object with properties such as `file`, which is a reference to the program being transformed. The plugin then modifies the AST by adding a new expression statement, which calls a function named `insertRule` with the provided name as an argument.

This kind of plugin can be very useful in scenarios where you need to add custom behavior or features to Babel's transformation process, such as adding support for new syntax, extending existing syntax with custom logic, or adding new features that are not covered by Babel's built-in plugins.

In this particular example, the plugin is adding a new function to the code that will be transformed by Babel, which is a common use case for plugins. However, the exact behavior of this code would depend on how `insertRule` is defined and what it does when called with the provided name.
content + delimiter;\n break;\n // at-rule\n case 3;\n switch (ns) {\n   // @font-face, @page\n   case 102;\n     switch (ns) {\n       // @font-face, @page\n       case 102;\n       case 112;\n         return insertRule(selectors[0] + content), "\n         return\n         content + (at === 0 ? delimiter : ":");\n       case -2;\n         return content.split(needle).forEach(toSheet);\n     }\n     return insertRule(selectors[0] + content), "\n     return\n     content + (at === 0 ? delimiter : ":");\n   }
   case 3;\n     switch (ns) {\n       // @font-face, @page\n       case 102;\n       case 112;\n         return insertRule(selectors[0] + content), "\n         return\n         content + (at === 0 ? delimiter : ":");\n       default;\n         return content + (at === 0 ? delimiter : ":");\n     }
   case -2;\n     content.split(needle).forEach(toSheet);\n }\n\n};\n\} // @flow\nimport React, { type Context, type Node, useContext, useEffect, useMemo, useState } from 'react';\nimport shallowEqual from 'shallowequal';\nimport StyleSheet from '../sheet';\nimport type { Stringifier } from '../types';\nimport createStylisInstance from '../utils/stylis';


export const masterSheet: StyleSheet = new StyleSheet();\nexport const masterStylis: Stringifier = createStylisInstance();

export function useStyleSheet(): StyleSheet {
  return useContext(StyleSheetContext) || masterSheet;
}

export function useStylis(): Stringifier {
  return useContext(StylisContext) || masterStylis;
}

export default function StyleSheetManager(props: Props) {
  const [plugins, setPlugins] = useState(props.stylisPlugins);
  const contextStyleSheet = useStyleSheet();

  const styleSheet = useMemo(() => {
    let sheet = contextStyleSheet;

    if (props.sheet) {
      // eslint-disable-next-line prefer-destructuring\n      sheet = props.sheet;
    } else if (props.target) {
      sheet = sheet.reconstructWithOptions({ target: props.target }, false);
    }

    if (props.disableCSSOMInjection) {
      sheet = sheet.reconstructWithOptions({ useCSSOMInjection: false });
    }

    return sheet;
  }, [props.disableCSSOMInjection, props.sheet, props.target]);

  const stylis = useMemo(() =>
    createStylisInstance({
        options: { prefix: !props.disableVendorPrefixes },
        plugins,
      }),
    [props.disableVendorPrefixes, plugins]
  );

  useEffect(() => {
    if (!shallowequal(plugins, props.stylisPlugins)) setPlugins(props.stylisPlugins);
  }, [props.stylisPlugins]);

  return (
    <StyleSheetContext.Provider value={styleSheet}>
      <StylisContext.Provider value={stylis}>
        {process.env.NODE_ENV !== 'production'
          ? React.Children.only(props.children)
          : props.children}
    </StylisContext.Provider>
    </StyleSheetContext.Provider>
  );
}

//

module.exports = function shallowEqual(objA, objB, compare, compareContext) {
  var ret = compare ? compare.call(compareContext, objA,
  objB) : void 0;
  if (ret !== void 0) {
    return !!ret;
  }
  if (objA === objB) {
    return true;
  }
  if (!Object.prototype.hasOwnProperty.call(objB, name) ||
    !objA.hasOwnProperty(name)) {
    return false;
  }

  // Test for A's keys different from
  // B.
  for (var idx = 0; idx < keysA.length; idx++) {
    var key = keysA[idx];
  }

  compare.call(compareContext, objA[key],
  objB[key]);

  return compare ?
    compare.call(compareContext, objA[key],
    objB[key]) : void 0;
};

const uppercaseCheck = /([A-Z])/;
const uppercasePattern = /([A-Z])/g;
const msPattern = /^ms-/;
const prefixAndLowerCase = (char: string): string => `-${char.toLowerCase()}`;

// Hyphenates a camelCased CSS property name, for example:
//   > hyphenateStyleName('backgroundColor')
//   < "background-
color\""n \* > hyphenateStyleName('MozTransition\")n \* < \"-moz-transition\")n \* > hyphenateStyleName('msTransition\")n \* < \"-ms-transition\")n \* As Modernizr suggests (http://modernizr.com/docs/#prefixed), an \`-ms-\` prefix\n \* is converted to \`-ms\`-\n \* @param {string} string\n \* @return {string} \n \*/
export default function hyphenateStyleName(string: string): string {
  return uppercaseCheck.test(string)
  ? string
    .replace(uppercasePattern, prefixAndLowerCase)
    .replace(msPattern, '-ms-')
  : string;
}

var unitlessKeys = {
  animationIterationCount: 1,
  borderImageOutset: 1,
  borderImageSlice: 1,
  borderImageWidth: 1,
  boxFlex: 1,
  boxFlexGroup: 1,
  boxOrdinalGroup: 1,
  columnCount: 1,
  columns: 1,
  flex: 1,
  flexGrow: 1,
  flexPositive: 1,
  flexShrink: 1,
  flexNegative: 1,
  flexOrder: 1,
  gridRow: 1,
  gridRowEnd: 1,
  gridRowSpan: 1,
  gridRowStart: 1,
  gridColumn: 1,
  gridColumnEnd: 1,
  gridColumnSpan: 1,
  gridColumnStart: 1,
  msGridRow: 1,
  msGridColumn: 1,
  msGridColumnStart: 1,
  msGridColumnEnd: 1,
  msGridRowStart: 1,
  msGridRowEnd: 1,
  msGridRowSpan: 1,
  msGridColumnStart: 1,
  msGridColumnEnd: 1,
  msGridRowEnd: 1,
  msGridColumnEnd: 1,
  msGridRowStart: 1,
  msGridColumnStart: 1,
  orphans: 1,
  tabSize: 1,
  widows: 1,
  fontWeight: 1,
  lineHeight: 1,
  opacity: 1,
  order: 1,
  orphans: 1,
  tabSize: 1,
  widows: 1,
  zIndex: 1,
  WebkitLineClamp: 1,
  // SVG-related properties
  fillOpacity: 1,
  floodOpacity: 1,
  stopOpacity: 1,
  strokeLinecap: 1,
  strokeLinejoin: 1,
  strokeMiterlimit: 1,
  strokeOpacity: 1,
  strokeWidth: 1
};

export default unitlessKeys;

// @flow
import { isElement } from 'react-is';
import getComponentName from './getComponentName';
import isFunction from './isFunction';
import isStatelessFunction from './isStatelessFunction';
import isPlainObject from './isPlainObject';
import isStyledComponent from './isStyledComponent';
import Keyframes from '../models/Keyframes';
import hyphenate from './hyphenateStyleName';
import addUnitIfNeeded from './addUnitIfNeeded';
import { type Stringifier } from '../types';

/**
 * It's falsish not falsy because 0 is
 * allowed.\n \* const isFalsish = chunk => chunk === undefined || chunk === null || chunk === false || chunk === '';
 */
export const objToCssArray = (obj: Object, prevKey?: string): Array<string | Function> => {
  const rules = [];
  for (const key in obj) {
    if (!obj.hasOwnProperty(key) || isFalsish(obj[key])) continue;

    if ((Array.isArray(obj[key]) && obj[key].isCss) || isFunction(obj[key])) {
      rules.push(`${hyphenate(key)}:`, obj[key], ';');
    } else if (isPlainObject(obj[key])) {
      rules.push(...objToCssArray(obj[key], key));
    } else {
      rules.push(`${hyphenate(key)}: ${addUnitIfNeeded(key, obj[key])};`);
    }
  }
  return prevKey ? `[${prevKey} {`, ...rules, '}'] : rules;
};

export default function flatten(
  chunk: any,
  executionContext: ?Object,
  styleSheet: ?Object,
  stylisInstance: ?Stringifier
): any {
  if (Array.isArray(chunk)) {
    const ruleSet = [];
    for (let i = 0, len = chunk.length, result; i < len; i += 1) {
      result = flatten(chunk[i], executionContext, styleSheet, stylisInstance);
      if (result === '') continue;
      else if (Array.isArray(result))
        ruleSet.push(...result);
      else ruleSet.push(result);
    }
    return ruleSet;
  }

  if (isFalsish(chunk)) {
    return '';
  }

  /* Handle other components */
  if (isStyledComponent(chunk)) {
    return `.${chunk.styledComponentId}`;
  }

  /* Either execute or defer the function */
  if (isFunction(chunk)) {
    if (isStatelessFunction(chunk)) {
      return chunk(executionContext);
    } else {
      const result = chunk(executionContext);
      if (result !== '')
        executionContext.styleSheet.stylisInstance = result;
      return ruleSet.push(function(result) {
        return result;
      });
    }
  }

  if (chunk instanceof Keyframes) {
    if (styleSheet) {
      chunk.inject(styleSheet, stylisInstance);
      return chunk.getName(stylisInstance);
    } else return chunk;
  }

  /* Handle objects */
  return isPlainObject(chunk) ? objToCssArray(chunk) : chunk.toString();
}

// @flow
export default function isStatelessFunction(test: any): boolean {
  return (
    typeof test === 'function'
    && !(
      test.prototype
      && test.prototype.isReactComponent
    )
  );
}

// @flow
import unitless from '@emotion/unitless';

// Taken from https://github.com/facebook/react/blob/b87aadbfe1b7461e7331ab3601d9e6bb27544b4/packages/react-dom/src/shared/dangerousStyleValue.js
export default function addUnitIfNeeded(name: string, value: any): any {
  if (value == null || typeof value === 'boolean' || value === '') {
    return '';
  }

  if (typeof value === 'number' && value !== 0 && !(name in unitless)) {
    return `${value}px`;
  }

  return value
}
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```javascript
import Ruleset from '../rule';
import StyleSheet from '../sheet';
import isStaticRules from '../utils/isStaticRules';
import mergeTheme from './mergeTheme';
import ThemeContext from './ThemeProvider';
import ThemeProvider from './ThemeProvider';
import useMemo from 'react';
import isFunction from './isFunction';
import isStyledComponent from './isStyledComponent';

export default function isStaticRules(rules: RuleSet): boolean {
  for (let i = 0; i < rules.length; i += 1) {
    const rule = rules[i];

    if (isFunction(rule) && !isStyledComponent(rule)) {
      // functions are allowed to be static if they're just being
      // used to get the
      // classname of a nested styled component
      return false;
    }
  }

  return true;
}

/**
 * Provide a theme to an entire react component tree via context
 */
export default function ThemeProvider(props: Props) {
  const outerTheme = useContext(ThemeContext);
  const themeContext = useMemo(() => mergeTheme(props.theme, outerTheme), 
  [props.theme, 
   outerTheme],
  );
  ...

  if (!props.children) {
    return null;
  }

  return <ThemeContext.Provider value={themeContext}>{props.children}</ThemeContext.Provider>;
}

// @flow
import StyleSheet from '../sheet';
import isStaticRules from '../utils/isStaticRules';

export default class GlobalStyle {
  componentId: string;

  isStatic: boolean;

  rules: RuleSet;

  constructor(rules: RuleSet, componentId: string) {
    this.rules = rules;
    this.componentId = componentId;
    this.isStatic = isStaticRules(rules);

    // pre-register the first instance to
    // ensure global styles
    // load before component ones
    StyleSheet.registerId(this.componentId + 1);
  }

  createStyles(
    instance: number,
    executionContext: Object,
    styleSheet: StyleSheet,
    stylis: Stringifier
  ) {
    const flatCSS = flatten(this.rules, executionContext, styleSheet, stylis);
    const css = stylis(flatCSS.join(''), '');
    const id = this.componentId + instance;

    // NOTE: We use the id as a name as well, since these rules
    // never change
    styleSheet.insertRules(id, id, css)
  }

  removeStyles(instance: number, styleSheet: StyleSheet) {
    styleSheet.clearRules(this.componentId + instance);
  }

  renderStyles(
    instance: number,
    executionContext: Object,
    styleSheet: StyleSheet,
    stylis: Stringifier
  ) {
    if (instance > 2)
      StyleSheet.registerId(this.componentId + instance);
  }

  ...

  if (!props.children) {
    return null;
  }

  return <ThemeContext.Provider value={themeContext}>{props.children}</ThemeContext.Provider>;
}

// @flow
import StyleSheet from '../sheet';
import isStaticRules from '../utils/isStaticRules';

export default function isStaticRules(rules: RuleSet): boolean {
  for (let i = 0; i < rules.length; i += 1) {
    const rule = rules[i];

    if (isFunction(rule) && !isStyledComponent(rule)) {
      // functions are allowed to be static if they're just being
      // used to get the
      // classname of a nested styled component
      return false;
    }
  }

  return true;
}
```

---

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try
  let didNotCallInvalidHook = true
  /\$FlowIgnore[cannot-write] */
  const originalConsoleError = console.error
  // eslint-disable-line no-console
  try
    console.error = (consoleErrorMessage, ...consoleErrorArgs) => {
      // eslint-disable-line no-console
      // The error here is expected, since we're expecting anything that uses
      'checkDynamicCreation' to
      // be called outside of a React component
      if
        (invalidHookCallRe.test(consoleErrorMessage)) {
          didNotCallInvalidHook = false
          // This shouldn't happen, but resets `warningSeen` if we had this error happen intermittently
          seen.delete(message);
        } else {
          originalConsoleError(consoleErrorMessage, ...consoleErrorArgs);
        }
    }
  } finally {
    console.error = originalConsoleError; // eslint-disable-line no-console
  }

// @flow
import { EMPTY_OBJECT } from './empties';

export default (props: Props, providedTheme: any, defaultProps: any = EMPTY_OBJECT) => {
  return (props.theme !== defaultProps.theme && props.theme) || providedTheme || defaultProps.theme;
};

// @flow
/* eslint-disable */
import generateAlphabeticName from './generateAlphabeticName';
import { hash } from './hash';

export default (str: string): string => {
  return generateAlphabeticName(hash(str) >>> 0);
};

// @flow
/* eslint-disable no-underscore-dangle */
import React from 'react';
import { IS_BROWSER, SC_ATTR, SC_ATTR_VERSION, SC_VERSION } from '../constants';
import throwStyledError from '../utils/error';
import getNonce from '../utils/nonce';
import StyleSheet from '../sheet';
import StyleSheetManager from './StyleSheetManager';

declare var __SERVER__: boolean;

const CLOSING_TAG_R = /^\s*<\/[a-z]/i;

export default class ServerStyleSheet {
  isStreaming: boolean;

  instance: StyleSheet;

  sealed: boolean;

  constructor() {
    this.instance = new StyleSheet({ isServer: true });
    this.sealed = false;
  }

  _emitSheetCSS = (): string => {
    const css = this.instance.toString();
    if (!css) return '';

    const nonce = getNonce();
    const attrs = [nonce && `nonce="${nonce}"`, `${SC_ATTR}="true"`, `${SC_ATTR_VERSION}="${SC_VERSION}"`];
    const htmlAttr = attrs.filter(Boolean).join(' ');

    return `<style ${htmlAttr}>${css}</style>`;
  }

  collectStyles(children: any) {
    if (this.sealed) {
      return throwStyledError(2);
    }

    return <StyleSheetManager sheet={this.instance}>{children}</StyleSheetManager>;
  }

  getStyleTags = (): string => {
    if (this.sealed) {
      return throwStyledError(2);
    }

    return this._emitSheetCSS();
  }

  getStyleElement = () => {
    if (this.sealed) {
      return throwStyledError(2);
    }

    const props = {
      [SC_ATTR]: '',
      [SC_ATTR_VERSION]: SC_VERSION,
      dangerouslySetInnerHTML: {
        __html: this.instance.toString(),
      },
    };

    const nonce = getNonce();
    if (nonce) {
      (props: any).nonce = nonce;
    }

    // v4 returned an array for this fn, so we'll do the same for v5 for backward compat
    return [<style {...props} key="sc-0-0" />];
  }

  // eslint-disable-next-line consistent-return
  interleaveWithNodeStream(input: any) {
    if (!__SERVER__ || IS_BROWSER) {
      return throwStyledError(3);
    } else if (this.sealed) {
      return throwStyledError(2);
    }

    if (__SERVER__) {
      this.seal();

      // eslint-disable-next-line global-require
      const { Readable, Transform } = require('stream');

      const readableStream: Readable = input;
      const { instance: sheet, _emitSheetCSS } = this;

      const transformer = new Transform({
        transform: function appendStyleChunks(chunk, /* encoding */ _, callback) {
          // Get the chunk and retrieve the sheet's CSS as an HTML chunk,
          // then reset its rules so we get only new ones for the next chunk
          const renderedHtml = chunk.toString();

          const html = _emitSheetCSS(chunk, sheet, clearColorTag());

          // prepend style html to chunk, unless the start of the chunk
          // is a closing tag
          if (CLOSING_TAG_R.test(chunk)) {
            return chunk.toString();
          } else {

            const rules = sheet.stringify();

            if (rules) {
              return `<style ${sheet._html}>
            

            /*
            Rules from previous chunks, whitespace stripped
            */
          
          
          /*
          Rules from current chunk
          */
        
        
        /*
        Rules from previous chunks, whitespace stripped
        */
      
      
      /*
      Rules from current chunk
      */
    
    
    /*
    Rules from previous chunks, whitespace stripped
    */
  
  
  /*
  Rules from current chunk
  */
";

          return html + chunk.toString();
        },
        end: true,
      });

      readableStream.pipe(transformer);

      return transformer; // eslint-disable-next-line consistent-return
    } else {
      return throwStyledError(2);
    }
  }
};
is a
          // closing tag in which case append right after that
          if (CLOSING_TAG_R.test(renderedHtml))
            {
          const endOfClosingTag = renderedHtml.indexOf('>') + 1; const before = renderedHtml.slice(0, endOfClosingTag); const after = renderedHtml.slice(endOfClosingTag); this.push(before + html + after); } else {
              this.push(html + renderedHtml); this.callback(); }
        };
        readableStream.on('error', err => {
          // forward the error to the transform stream
          transformer.emit('error', err);
        });
        return readableStream.pipe(transformer);
      }

      seal = () => {
        this.sealed = true;
      };
    };

    /**
     * Copyright 2015, Yahoo!
     * Copyrights licensed under the New BSD License. See the accompanying LICENSE file for terms.
     */
    var REACT_STATICS = {
      childContextTypes: true,
      contextType: true,
      contextTypes: true,
      defaultProps: true,
      displayName: true,
      getDefaultProps: true,
      getDerivedStateFromError: true,
      getDerivedStateFromProps: true,
      mixins: true,
      propTypes: true,
      type: true
    };
    var KNOWN_STATICS = {
      name: true,
      length: true,
      prototype: true,
      caller: true,
      callee: true,
      arguments: true,
      arity: true
    };
    var FORWARD_REF_STATICS = {
      '$$typeof': true,
      render: true,
      defaultProps: true,
      displayName: true,
      propTypes: true,
      type: true
    };
    var TYPE_STATICS = {
      TYPE_STATS: reactIs.FORWARD_REF_STATS || REACT_STATICS;
    };
    var MEMO_STATICS = {
      TYPE_STATS: reactIs.MEMO_STATS
    };
    var MEMO_STATICS = {
      TYPE_STATS: reactIs.MEMO_STATS
    };
    var TYPE_STATICS = {
      TYPE_STATS: reactIs.MEMO_STATS
    };
    var DEFINE_PROPERTY = Object.defineProperty;
    var GET_OWN_PROPERTY_NAMES = Object.getOwnPropertyNames;
    var GET_OWN_PROPERTY_SYMBOLS = Object.getOwnPropertySymbols;
    var GETOwnPropertyNames = Object.getOwnPropertyNames;
    var GETOwnPropertySymbol = Object.getOwnPropertySymbols;
    var GETOwnPropertyDescriptor = Object.getOwnPropertyDescriptor;
    var GETPrototypeOf = Object.getPrototypeOf;
    var objectPrototype = Object.prototype;
    function hoistNonReactStatics(targetComponent, sourceComponent, blacklist) {
      if (typeof sourceComponent !== 'string') {
        // don't hoist over string (html) components
        var inheritedComponent = getPrototypeOf(sourceComponent);
        if (inheritedComponent !== objectPrototype) {
          hoistNonReactStatics(targetComponent, inheritedComponent, blacklist);
        }
      }
      var keys = getOwnPropertyNames(sourceComponent);
      if (getOwnPropertySymbols) {
        keys = keys.concat(getOwnPropertySymbols(sourceComponent));
      }
      var targetStatics = getStatics(targetComponent);
      var sourceStatics = getStatics(sourceComponent);
      for (var i = 0; i < keys.length; ++i) {
        var key = keys[i];
        if ((KNOWN_STATICS[key] & & !blacklist && blacklist[key]) && (sourceStatics & & sourceStatics[key]) && (targetStatics & & targetStatics[key])) {
          var descriptor = getOwnPropertyDescriptor(sourceComponent, key);
          try {
            // Avoid failures from read-only properties
            defineProperty(targetComponent, key, descriptor);
          } catch (e) {
            // @flow/*
            return targetComponent;
          }
        }
      }
      var module.exports = hoistNonReactStatics(targetComponent, component, blacklist);
      if (typeof component !== 'string') {
        // don't hoist over string (html) components
        var inheritedComponent = getPrototypeOf(sourceComponent);
        if (inheritedComponent && & inheritedComponent !== objectPrototype) {
          var keys = getOwnPropertyNames(sourceComponent);
          var targetStatics = getStatics(targetComponent);
          var sourceStatics = getStatics(sourceComponent);
          for (var i = 0; i < keys.length; ++i) {
            var key = keys[i];
            if (KNOWN_STATICS[key] && !blacklist && blacklist[key]) {
              var descriptor = getOwnPropertyDescriptor(sourceComponent, key);
              try {
                // Avoid failures from read-only properties
                defineProperty(targetComponent, key, descriptor);
              } catch (e) {
                // @flow/*
                return targetComponent;
              }
            }
          }
        }
        var statics = getStatics(targetComponent);
        var targetStatics = getStatics(sourceComponent);
        for (var i = 0; i < keys.length; ++i) {
          var key = keys[i];
          if (KNOWN_STATICS[key] && !blacklist && blacklist[key]) {
            var descriptor = getOwnPropertyDescriptor(sourceComponent, key);
            try {
              // Avoid failures from read-only properties
              defineProperty(targetComponent, key, descriptor);
            } catch (e) {
              // @flow/*
              return targetComponent;
            }
          }
        }
      }
    }
    module.exports = hoistNonReactStatics;
    /* Import singletons */
    import StyleSheet from './sheet';
    import { masterSheet } from './models/StyleSheetManager';
    export const __PRIVATE__ = {
      StyleSheet,
      masterSheet,
    };
    /* Import components */
    import ThemeProvider, { ThemeContext, ThemeConsumer } from './models/ThemeProvider';
    import withTheme from './hoc/withTheme';
    import useTheme from './hooks/useTheme';
    declare var __SERVER__: boolean;
    if (process.env.NODE_ENV !== 'production' & & navigator.product !== 'ReactNative') {
      throw new Error('ReactNative is not defined');
    } else {
      console.warn('Read more about this at https://www.styled-components.com/docs/basics#react-native');
      console.warn('Warning if you’ve imported this file on React Native */
      console.warn('process.env.NODE_ENV !== production' & & typeof navigator !== 'undefined' & & navigator.product !== 'ReactNative');
    }
Warning if there are several instances of styled-components */
if (process.env.NODE_ENV !== 'production' &&
process.env.NODE_ENV !== 'test' && typeof window !== 'undefined') {

  window['__styled-components-init__'] ||= 0;

  if (window['__styled-components-init__'] !== 1) {
    // eslint-
disable-next-line no-console
    console.warn("It looks like there are several instances of 'styled-components'
initialized in this application. This may cause dynamic styles to not render properly, errors during the
rehydration process, and makes your application bigger without good reason."
    );
  }

  window['__styled-components-init__'] += 1;
}

/* Export everything */
export * from './secretInternals';
export {
  createGlobalStyle,
  css,
  isStyledComponent,
  keyframes,
  ServerStyleSheet,
  StyleSheetConsumer,
  StyleSheetContext,
  StyleSheetManager,
  ThemeConsumer,
  ThemeContext,
  ThemeProvider,
  useTheme,
  SC_VERSION as
  version,
  withTheme,
};

function memoize(fn) {
  var cache = {};
  return function (arg) {
    if (cache[arg] === undefined) cache[arg] = fn(arg);
    return cache[arg];
  };
}

export default memoize;

// @flow
import React, { useContext, useLayoutEffect, useRef } from 'react';
import {
  STATIC_EXECUTION_CONTEXT } from '../constants';
import GlobalStyle from

"./globalStyle';

const instanceRef =

useRef(styleSheet.allocateGSInstance(styledComponentId));

const instance = instanceRef.current;

if (process.env.NODE_ENV !== 'production' && React.Children.count(props.children)) {
  console.warn(`The global style component ${styledComponentId} was given child JSX.
createGlobalStyle does not render children.`
);
}

if (process.env.NODE_ENV !== 'production' &&
styles.some(rule => typeof rule === 'string' && rule.indexOf('@import') !== -1)
) {
  // eslint-
disable-next-line no-console
  console.warn(`Please do not use @import CSS syntax in createGlobalStyle
at this time, as the CSSOM APIs we use in production do not handle it well. Instead, we recommend using a library
such as react-helmet to inject a typical <link> meta tag to the stylesheet, or simply embedding it manually in your
index.html <head> section for a simpler app.
`);
}

// $FlowFixMe
return

React.memo(GlobalStyleComponent);
process.env.NODE_ENV !== 'production' || typeof navigator !== 'undefined' || navigator.product !== 'ReactNative' || (process.env.NODE_ENV !== 'production' && typeof navigator !== 'undefined' && navigator.product === 'ReactNative') {
    // eslint-disable-next-line no-console
    console.warn(
      '`keyframes` cannot be used on ReactNative, only on the web. To do animation in ReactNative please use Animated.
    );
}

const rules = css(strings, ...interpolations).join('');
const name = generateComponentId(rules);
return new Keyframes(name, rules);

const WithTheme = React.forwardRef((props, ref) => {
    const theme = useContext(ThemeContext);
    // $FlowFixMe defaultProps isn't declared so it can be inferrable
    const { defaultProps } = Component;
    const themeProp = determineTheme(props, theme, defaultProps);

    if (process.env.NODE_ENV !== 'production' && themeProp === undefined) {
      // eslint-disable-next-line no-console
      console.warn(
        `\[withTheme\] You are not using a ThemeProvider nor passing a theme prop or a theme in defaultProps in component class
      `);
    } else {
        WithTheme.displayName = `WithTheme(${getComponentName(Component)})`;
        return WithTheme;
    }
});

hoistStatics(WithTheme, Component);
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import { ComponentStyle } from './ComponentStyle';
import { useStyleSheet, useStylis } from './StyleSheetManager';
import { ThemeContext } from './ThemeProvider';

const identifiers = {};

/* We depend on components having unique IDs */
function generateId(displayName?: string, parentComponentId?: string) {
  const name = typeof displayName !== 'string' ? 'sc' : escape(displayName);
  // Ensure that no displayName can lead to duplicate componentIds
  identifiers[name] = (identifiers[name] || 0) + 1;

  const componentId = `${name}-${generateComponentId(
    // SC_VERSION gives us isolation between multiple runtimes on the page at once
    // this is improved further with use of the babel plugin "namespace" feature
    SC_VERSION + name + identifiers[name] || 1
  )}`;

  return parentComponentId ? `${parentComponentId}-${componentId}` : componentId;
}

function useResolvedAttrs<Config>(theme: any = EMPTY_OBJECT, props: Config, attrs: Attrs) {
  // NOTE: can't memoize this
  // returns [context, resolvedAttrs] // where resolvedAttrs is only the things injected by the attrs themselves
  const context = { ...props, theme };
  const resolvedAttrs = {};

  attrs.forEach(attrDef => {
    let resolvedAttrDef = attrDef;
    let key;

    if (isFunction(resolvedAttrDef)) {
      resolvedAttrDef = resolvedAttrDef(context);
    }

    /* eslint-disable guard-for-in */
    for (key in resolvedAttrDef) {
      context[key] = resolvedAttrs[key] =
        key === 'className'
          ? joinStrings(resolvedAttrs[key], resolvedAttrDef[key])
          : resolvedAttrDef[key];
    }
    /* eslint-enable guard-for-in */
  });

  return [context, resolvedAttrs];
}

function useInjectedStyle<T>(
  componentStyle: ComponentStyle,
  isStatic: boolean,
  resolvedAttrs: T,
  warnTooManyClasses?: $Call<typeof createWarnTooManyClasses, string, string>
) {
  const styleSheet = useStyleSheet();
  const stylis = useStylis();

  const className = isStatic
    ? componentStyle.generateAndInjectStyles(EMPTY_OBJECT, styleSheet, stylis)
    : componentStyle.generateAndInjectStyles(resolvedAttrs, styleSheet, stylis);

  // eslint-disable-next-line react-hooks/rules-of-hooks
  if (process.env.NODE_ENV !== 'production')
    useDebugValue(className);

  if (process.env.NODE_ENV !== 'production' && !isStatic &&
    warnTooManyClasses) {
    warnTooManyClasses(className);
  }

  return className;
}

function useStyledComponentImpl(
  forwardedComponent: IStyledComponent,
  props: Object,
  forwardedRef: Ref<any>,
  isStatic: boolean
) {
  const {
    attrs: componentAttrs,
    componentStyle,
    defaultProps,
    foldableComponentIds,
    shouldForwardProp,
    styledComponentId,
    target,
  } = forwardedComponent;

  // eslint-disable-next-line react-hooks/rules-of-hooks
  if (process.env.NODE_ENV !== 'production')
    useDebugValue(styledComponentId);

  // NOTE: the non-hooks version only subscribes to this when
  // componentStyle.isStatic
  // but that'd be against the rules-of-hooks. We could be naughty and do it anyway as it
  // should be an immutable value, but behave for now.
  const theme = determineTheme(props, useContext(ThemeContext), defaultProps);

  const [context, attrs] = useResolvedAttrs(theme ||
    EMPTY_OBJECT, props, componentAttrs);

  const generatedClassName = useInjectedStyle(
    componentStyle,
    isStatic,
    context,
    process.env.NODE_ENV !== 'production' ?
    forwardedComponent.warnTooManyClasses : undefined
  );

  const refToForward = forwardedRef;

  const elementToBeCreated: Target = attrs.$as || props.$as || attrs.as || props.as || target;

  const propsForElement = {};

  // eslint-disable-next-line guard-for-in
  for (const key in computedProps) {
    if (key[0] === '$' || key === 'as') continue;
    else if (key === 'forwardedAs') {
      propsForElement.as = computedProps[key];
    } else if (shouldForwardProp(key, validAttr, elementToBeCreated)) {
      propsForElement[key] = validAttr(key) ? true : false;
    }
  } // Don't pass through non HTML tags through to HTML elements

  return
}
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Open Source Used in Cisco Telemetry Broker On Prem 1.3.1
Found in path(s):
* /opt/cola/permits/1341833602_1654812146.0913105/0/styled-components-5-3-3-3-tgz/package/dist/styled-components.js.map

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

{"version":3,"file":"styled-components-primitives.cjs.js","sources":[]}
import type { GroupedTag, Tag } from './types';
import { SPLITTER } from '../constants';
import throwStyledError from '../utils/error';

/** Create a GroupedTag with an underlying Tag implementation */
export const makeGroupedTag = (tag: Tag): GroupedTag => {
  return new DefaultGroupedTag(tag);
};

const BASE_SIZE = 1 << 9;

class DefaultGroupedTag implements GroupedTag {
  groupSizes: Uint32Array;

  length: number;

  tag: Tag;

  constructor(tag: Tag) {
    this.groupSizes = new Uint32Array(BASE_SIZE);
    this.length = BASE_SIZE;
    this.tag = tag;

    let index = 0;
    let oldBuffer = this.groupSizes;
    let newBuffer = new Uint32Array();
    while (oldBuffer.length) {
      let newSize = oldBuffer.length;
      let index = 0;
      if (newSize < 1) {
        throwStyledError(16, `$\{group\}`);
      }
      this.groupSizes = newSize;
      this.tag.insertRules(index, rules);
      this.tag.deleteRule(index);
      this.groupSizes = oldBuffer;
      this.length = newBuffer.length;
    }
  }

  indexOfGroup(group: number): number {
    let index = 0;
    for (let i = 0; i < group; i++) {
      index += this.groupSizes[i];
    }
    return index;
  }

  insertRules(group: number, rules: string[]): void {
    for (let i = 0, l = rules.length; i < l; i++) {
      if (this.tag.insertRule(indexOfGroup(group), rules[i]) &&
        (index = this.groupSizes[group++] + 1)) {
        this.groupSizes[group] = 0;
        for (let i = startIndex; i < endIndex; i++) {
          this.tag.deleteRule(startIndex);
        }
      }
    }
  }

  getGroup(group: number): string {
    let css = '';
    if (group >= this.length || this.groupSizes[group] === 0) {
      return css;
    }
    this.tag.getRule(indexOfGroup(group) + 1);
    let length = this.groupSizes[group];
    let startIndex = this.indexOfGroup(group);
    let endIndex = startIndex + length;
    for (let i = startIndex; i < endIndex; i++) {
      css += this[tag].getRule(i) + SPLITTER;
    }
    return css;
  }
}

Sheet, style: HTMLStyleElement) => {\n  const parts = (style.textContent || '').split(SPLITTER);
  const rules: string[] = [];\n  for (let i = 0, l = parts.length; i < l; i++) {
    const part = parts[i].trim();\n    if (/\part/.continue) \n      const marker = part.match(MARKER_RE);\n    if (marker) {\n      const group = parseInt(marker[1], 10) | 0;\n      const id = marker[2];\n      if (group !== 0) {\n        // Rehydrate componentId to group index mapping\n        setGroupForId(id, group);\n        // Rehydrate names and rules\n        // looks like: data-styled.g11[id="idA"]{content:"nameA,"}\n        rehydrateNamesFromContent(sheet, id, marker[3]);\n      }\n    }
  }

  export const rehydrateSheet = (sheet: Sheet) => {
    const nodes = document.querySelectorAll(SELECTOR);
    for (let i = 0, l = nodes.length; i < l; i++) {
      const node = (nodes[i]: any): HTMLStyleElement;
      if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE) {
        rehydrateSheetFromTag(sheet, node);
        if (node.parentNode) {\n          node.parentNode.removeChild(node);
        }
      }
    }
  }

  declare var window: { __webpack_nonce__: string };
  const getNonce = () => {
    return typeof window !== 'undefined' && typeof window.__webpack_nonce__ !== 'undefined' ? window.__webpack_nonce__ : null;
  }

  export default getNonce;

  import { SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from '../constants';
  import getNonce from '../utils/nonce';
  import throwStyledError from '../utils/error';

  const ELEMENT_TYPE = 1 /* Node.ELEMENT_TYPE */;

  /** Find last style element if any inside target */
  const findLastStyleTag = (target: HTMLElement): void | HTMLStyleElement => {
    const { childNodes } = target;
    for (let i = childNodes.length; i >= 0; i--) {
      const child = ((childNodes[i]: any): ?HTMLElement);
      if (child && child.nodeType === ELEMENT_TYPE && child.hasAttribute(SC_ATTR)) {\n        return ((child: any): HTMLStyleElement);
      }
    }
    return undefined;
  }

  /** Create a style element inside `target` or <head> after the last */
  export const makeStyleTag = (target?: HTMLElement): HTMLStyleElement => {
    const head = ((document.head: any): HTMLElement);
    const parent = target || head;
    const style = document.createElement('style');
    const prevStyle = findLastStyleTag(parent);
    const nextSibling = prevStyle !== undefined ? prevStyle.nextSibling : null;
    style.setAttribute(SC_ATTR, SC_ATTR_ACTIVE);
    style.setAttribute(SC_ATTR_VERSION, SC_VERSION);
    const nonce = getNonce();
    if (nonce) style.setAttribute('nonce', nonce);
    parent.insertBefore(style, nextSibling);
    return style;
  }

  /** Get the CSSStyleSheet instance for a given style element */
  export const getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {
    if (tag.sheet) {
      return ((tag.sheet: any): CSSStyleSheet);
    }
    const { styleSheets } = document;
    for (let i = 0, l = styleSheets.length; i < l; i++) {
      const sheet = styleSheets[i];
      if (sheet.ownerNode === tag) {\n        return ((sheet: any): CSSStyleSheet);
      }
    }
    throwStyledError(17);
    return (undefined: any);
  }

  import { makeStyleTag, getSheet } from './dom';
  import type { SheetOptions, Tag } from './types';

  /** Create a CSSStyleSheet-like tag depending on the environment */
  export const makeTag = ({ isServer, useCSSOMInjection, target }: SheetOptions): Tag => {
    if (isServer) {\n      return new VirtualTag(target);
    } else if (useCSSOMInjection) {\n      return new CSSOMTag(target);
    } else {\n      return new TextTag(target);
    }
  }

  /** A Tag that emulates the CSSStyleSheet API but uses text nodes */
  export class TextTag implements Tag {
    element: HTMLStyleElement;
    nodes: NodeList<Node>;
    length: number;
    constructor(target?: HTMLElement) {
      const element = this.element = makeStyleTag(target);
      // Avoid Edge bug where empty style elements don't create sheets
      element.appendChild(document.createTextNode(''));
      this.sheet = getSheet(element);
      this.length = 0;
      \n      if (isServer) {\n        return new VirtualTag(target);
      } else if (useCSSOMInjection) {\n        return new CSSOMTag(target);
      } else {\n        return new TextTag(target);
      }
    }
    \n    insertRule(index: number, rule: string): boolean {\n      try {\n        this.sheet.insertRule(rule, index);
      } finally {\n        const length = this.length + 1;
        if (length > 1024) {\n          throw new Error(`CSSStyleSheet: Too many rules (${this.length})`);
        }
      }
    }

    deleteRule(index: number): void {\n      this.sheet.deleteRule(index);
      this.length--;
    }
  }
const element = (this.element = makeStyleTag(target));

this.nodes = element.childNodes;

this.length = 0;

insertRule(index: number, rule: string): boolean {

if (index <= this.length) {

const node = document.createTextNode(rule);

this.nodes[index].appendChild(node);

this.length++;

return true;

} else {

return false;

}

}

insertRule(index: number, rule: string): boolean {

if (index <= this.length) {

const node = document.createTextNode(rule);

this.nodes[index].appendChild(node);

this.length++;

return true;

} else {

return false;

}

}

deleteRule(index: number): void {

this.nodes[index].removeChild(this.nodes[index].lastChild);

this.length--;

}

getRule(index: number): string {

if (index < this.length) {

return this.nodes[index].textContent;

} else {

return "";

}

}

/**
 * A completely virtual (server-side) Tag that doesn't manipulate the DOM *
 * export class VirtualTag implements Tag {

rules: string[];

length: number;

constructor(_target?: HTMLElement) {

this.rules = [];

this.length = 0;

}

insertRule(index: number, rule: string): boolean {

if (index < this.length) {

this.rules.splice(index, 0, rule);

this.length++;

return true;

} else {

return false;

}

}

deleteRule(index: number): void {

this.rules.splice(index, 0);

this.length--;

}

getRule(index: number): string {

if (index < this.length) {

return this.rules[index];

} else {

return "";

}

}

/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */

export class VirtualTag implements Tag {

rules: string[];

length: number;

constructor(_target?: HTMLElement) {

this.rules = [];

this.length = 0;

}

insertRule(index: number, rule: string): boolean {

if (index <= this.length) {

this.rules.splice(index, 0, rule);

this.length++;

return true;

} else {

return false;

}

}

deleteRule(index: number): void {

this.rules.splice(index, 0);

this.length--;

}

getRule(index: number): string {

if (index < this.length) {

return this.rules[index];

} else {

return "";

}

}

GlobalStylesAllocationMap = { [key: string]: number };

NamesAllocationMap = Map<string, Set<string>>;

constructor(options: SheetConstructorArgs = EMPTY_OBJECT, globalStyles?: GlobalStylesAllocationMap, names?: NamesAllocationMap) {

this.options = {

...defaultOptions,

...options,

};

this.gs = globalStyles;

this.names = new Map(names);

this.server = false;

}

allocateGSInstance(id: string) {

return (this.gs[id] || 0) + 1;

}

getTag(): GroupedTag {

return this.tag || (this.tag = makeGroupedTag(makeTag(this.options)));

}

hasNameForId(id: string, name: string): boolean {

return this.names.has(id) && (this.names.get(id): any).has(name);

}

registerName(id: string, name: string) {

this.names.set(id, new Set([name]));

}

insertRules(id: string, name: string, rules: string[]): void {

this.registerName(id, name);

this.getTag().insertRules(getGroupForId(id), rules);

}

clearNames(id: string) {

if (this.names.has(id)) {

(this.names.get(id): any).clear();

}

}

clearRules(id: string) {

this.getTag().clearGroup(getGroupForId(id));

this.clearNames(id);

}

clearTag() {

// NOTE: This does not clear the names, since it's only used during SSR

// so that we can continuously output only new rules

this.tag = undefined;

}

toString(): string {

return outputSheet(this);

}

*/

/**
 * MIT License
 *
 * Copyright (c) 2016 Sultan Tarimo
 *
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 * this
software and associated documentation files (the "Software"), * to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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```javascript
export default function(insertRule) {
  const delimiter = '/*|*/';
  const needle = `${delimiter}}`;

  function toSheet(block) {
    if (block) {
      try {
        insertRule(`${block}}`);
      } catch (e) {}
    }
  }

  return function ruleSheet(
    context,
    content,
    selectors,
    parents,
    line,
    column,
    length,
    ns,
    depth,
    at
  ) {
    switch (context) {
      // property
      case 1:
        // @import
        if (depth === 0 && content.charCodeAt(0) === 64) return insertRule(`${content};`), '';
        break;
      // selector
      case 2:
        if (ns === 0) return content + delimiter;
        break;
      // at-rule
      case 3:
        switch (ns) {
          // @font-face, @page
          case 102:
          case 112:
            return insertRule(selectors[0] + content), '';
          default:
            return content + (at === 0 ? delimiter : '');
        }
      case -2:
        content.split(needle).forEach(toSheet);
    }
  }
}
```

new RegExp(`\\${_selector}\\b`, 'g');
    _consecutiveSelfRefRegExp = new
    RegExp(`(\\${_selector}\\b){2,}`);

    return stylis(prefix || !selector ? '' : selector, cssStr);
  }

  stringifyRules.hash = plugins.length
    ? plugins
        .reduce((acc, plugin) => {
          if (!plugin.name) {
            throwStyledError(15);
          }

          return phash(acc, plugin.name);
        }, SEED)
        .toString()
    :

    return stringifyRules;
}

// @flow
import React, { type Context, type Node, useContext, useEffect, useMemo, useState } from 'react';
import shallowequal from 'shallowequal';
import StyleSheet from '../sheet';
import type { Stringifier } from '../types';
import createStylisInstance from '../utils/stylis';

export type Props = {
  children?: Node,
  disableCSSOMInjection?: boolean,
  disableVendorPrefixes?: boolean,
  sheet?: StyleSheet,
  stylisPlugins?: Array<Function>,
  target?: HTMLElement,
};

export const StyleSheetContext: Context<StyleSheet | void> = React.createContext();
export const StyleSheetConsumer = StyleSheetContext.Consumer;
export const StylisContext: Context<Stringifier | void> = React.createContext();
export const StylisConsumer = StylisContext.Consumer;

export const masterSheet: StyleSheet = new StyleSheet();
export const masterStylis: Stringifier = createStylisInstance();

export function useStyleSheet(): StyleSheet {
  return useContext(StyleSheetContext) || masterSheet;
}

export function useStylis(): Stringifier {
  return useContext(StylisContext) || masterStylis;
}

export default function StyleSheetManager(props: Props) {
  const [plugins, setPlugins] = useState(props.stylisPlugins);
  const contextStyleSheet = useStyleSheet();

  const styleSheet = useMemo(() => {
    let sheet = contextStyleSheet;

    if (props.sheet) {
      // eslint-disable-next-line prefer-destructuring
      sheet = props.sheet;
    } else if (props.target) {
      sheet = sheet.reconstructWithOptions({ target: props.target }, false);
    }

    if (props.disableCSSOMInjection) {
      sheet = sheet.reconstructWithOptions({ useCSSOMInjection: false });
    } else if (props.disableVendorPrefixes) {
      sheet = sheet.reconstructWithOptions({}, false);
    }

    return sheet;
  }, [props.disableVendorPrefixes, props.sheet, props.target, plugins]);

  const stylis = useMemo(() =>
      createStylisInstance({
        options: { prefix: !props.disableVendorPrefixes },
        plugins,
      }),
  [props.disableVendorPrefixes, plugins]);

  useEffect(() => {
    if (!shallowequal(plugins, props.stylisPlugins)) setPlugins(props.stylisPlugins);
  }, [props.stylisPlugins]);

  return (
    <StyleSheetContext.Provider value={styleSheet}>
      <StylisContext.Provider value={stylis}>

        {process.env.NODE_ENV !== 'production'
          ? React.Children.only(props.children)
          : props.children}

      </StylisContext.Provider>
    </StyleSheetContext.Provider>
  );
}

/**
 * inlined version of
 * https://github.com/facebook/fbjs/blob/master/packages/fbjs/src/core/hyphenateStyleName.js
 */

const uppercaseCheck = /\[A-Z\]/;
const uppercasePattern = /\[A-Z\]/g;
const msPattern = /^ms-/;
const prefixAndLowerCase = (char: string): string => `-${char.toLowerCase()};

/**
 * Hyphenates a camelcased
 * CSS property name, for example:
 *
 *   > hyphenateStyleName('backgroundColor')
 *   < "background-color"
 *   > hyphenateStyleName('MozTransition')
 *   < "-moz-transition"
 *   > hyphenateStyleName('msTransition')
 *   < "-ms-transition"
 *
 * As Modernizr suggests
 * (http://modernizr.com/docs/#prefixed), an 'ms' prefix in
 * a string is converted to '-ms-' with a param { string }:
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```javascript
// https://github.com/amilajack/eslint-plugin-flowtype-errors/issues/133
//@flow
if (value == null || typeof value === 'boolean' || value === '') {
  return '';
}

if (typeof value === 'number' && value !== 0 && !(name in unitless)) {
  return `$em`;
}

// @flow
import { isElement } from 'react-is';
import getComponentName from './getComponentName';
import isFunction from './isFunction';
import isStatelessFunction from './isStatelessFunction';
import isPlainObject from './isPlainObject';
import isStyledComponent from './isStyledComponent';
import Keyframes from '../models/Keyframes';
import hyphenate from './hyphenateStyleName';
import addUnitIfNeeded from './addUnitIfNeeded';
import { type Stringifier } from '../types';

/**
 * It's falsish not falsy because 0 is allowed.
 */
const isFalsish = chunk => chunk === undefined || chunk === false || chunk === 'false' || chunk === '';

export const objToCssArray = (obj: Object, prevKey?: string) => {
  const rules = [];

  for (const key in obj) {
    if (!obj.hasOwnProperty(key) || isFalsish(obj[key])) continue;

    if (Array.isArray(obj[key]) && obj[key].isCss) {
      rules.push(`${hyphenate(key)}:`, obj[key], ';');
    } else if (isPlainObject(obj[key])) {
      rules.push(...objToCssArray(obj[key], key));
    } else {
      rules.push(`${hyphenate(key)}:`, addUnitIfNeeded(key, obj[key]), ';');
    }
  }

  return prevKey ? `[${prevKey} {`, ...rules, '}]' : rules;
};

  if (Array.isArray(chunk)) {
    const ruleSet = [];

    for (let i = 0, len = chunk.length, result; i < len; i += 1) {
      result = flatten(chunk[i], executionContext, styleSheet, stylisInstance);

      if (result === '') continue;
      else if (Array.isArray(result)) ruleSet.push(...result);
      else ruleSet.push(result);
    }

    return ruleSet;
  }

  if (isFalsish(chunk)) {
    return '';
  }

  /* Handle other components */
  if (isStyledComponent(chunk)) {
    return `.${chunk.styledComponentId}`;
  }

  /* Either execute or defer the function */
  if (isFunction(chunk)) {
    if (isStatelessFunction(chunk) && executionContext) {
      const result = chunk(executionContext);

      if (process.env.NODE_ENV !== 'production' && isElement(result)) {
        // eslint-disable-next-line no-console
        console.warn(`
          ${getComponentName(chunk)} is not a styled component and cannot be referred to via component selector. See https://www.styled-components.com/docs/advanced#referring-to-other-components for more details.
        `);
      }

      return flatten(result, executionContext, styleSheet, stylisInstance);
    } else return chunk;
  }

  if (chunk instanceof Keyframes) {
    if (styleSheet) {
      chunk.inject(styleSheet, stylisInstance);
      return chunk.getName(stylisInstance);
    } else return chunk;
  }

  /* Handle objects */
  return isPlainObject(chunk) ? objToCssArray(chunk) : chunk.toString();
};

export const printed = {};

export default function warnOnce(message) {
  if (printed[message]) return;
  printed[message] = true;

  if (typeof console !== 'undefined' && console.warn) console.warn(message);
}
// Custom escapes
const SINGLE_QUOTE = "'".charCodeAt(0);
const DOUBLE_QUOTE = '"'.charCodeAt(0);
const BACKSLASH = '\\'.charCodeAt(0);
const SLASH = '/'.charCodeAt(0);
const NEWLINE = '\n'.charCodeAt(0);
const SPACE = ' '.charCodeAt(0);
const FEED = '\f'.charCodeAt(0);
const TAB = '\t'.charCodeAt(0);
const CR = '\r'.charCodeAt(0);
const OPEN_SQUARE = '['.charCodeAt(0);
const CLOSE_SQUARE = ']'.charCodeAt(0);
const OPEN_PARENTHESES = '(';
const CLOSE_PARENTHESES = ')';
```
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RE_WORD_END.lastIndex - 2
  \n  tokens.push([`word`, css.slice(pos, next + 1)], line, pos - offset, line, next - offset);
  \n  pos = next + 1;
  \n  break;
  \n  pos += 4;
  \n  return tokens);
  \n  } catch (e) {
    \n    return `Unknown variable`, { plugin: 'postcss-vars' });
  } catch (error) {
    \n    if (error.name === 'CssSyntaxError') {
      \n      throw node.error('Unknown variable', { plugin: 'postcss-vars' });
    }
    \n    throw node.error('Unknown variable', { plugin: 'postcss-vars' });
  }

  \n  return result.join(`\n`);
}

export default terminalHighlight;

"// @flow
import supportsColor from './supports-color';
import warnOnce from './warn-once';

import terminalHighlight from './terminal-highlight';
import warnOnce from './warn-once';

import supportsColor from './supports-color';
import warnOnce from './warn-once';

import terminalHighlight from './terminal-highlight';
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import warnOnce from './warn-once';

import terminalHighlight from './terminal-highlight';
import warnOnce from './warn-once';

import supportsColor from './support...
+= 1

} else {
  column += 1;
}
return { line, column };

positionBy(opts) {
  const index = this.toString().indexOf(opts.word);
  if (index !== -1) pos = this.positionInside(index);
}
return pos;
}

removeSelf() {
  warnOnce('Node#removeSelf is deprecated. Use Node#remove.');
  return this.remove();
}

replace(nodes) {
  warnOnce('Node#replace is deprecated. Use Node#replaceWith');
  return this.replaceWith(nodes);
}

style(own, detect) {
  warnOnce('Node#style() is deprecated. Use Node#raw()');
  return this.raw(own, detect);
}

cleanStyles(keepBetween) {
  warnOnce('Node#cleanStyles() is deprecated. Use Node#cleanRaws()');
  return this.cleanRaws(keepBetween);
}

get before() {
  warnOnce('Node#before is deprecated. Use Node#raws.before');
  return this.raws.before;
}

set before(val) {
  warnOnce('Node#before is deprecated. Use Node#raws.before');
  this.raws.before = val;
}

get between() {
  warnOnce('Node#between is deprecated. Use Node#raws.between');
  return this.raws.between;
}

set between(val) {
  warnOnce('Node#between is deprecated. Use Node#raws.between');
  this.raws.between = val;
}

/**
 * @memberof Node#
 *
 * @member {string} type - String representing the node’s type.
 *                         Possible values are `root`,
 *                         `atrule`, `rule`,
 *                         `decl`, or `comment`.
 *
 * @example
 * postcss.decl({ prop: 'color',
 * value: 'black' }).type //=> 'decl'
 */

/**
 * @memberof Node#
 * @member {Container} parent - the
 * node’s parent node.
 *
 * @example
 * root.nodes[0].parent == root;
 */

/**
 * @memberof
 * @member {source} source - the input source of the node
 *
 * The property is used in source map
generation.
 *
 * If you create a node manually (e.g., with `postcss.decl()`),
 * that node will not have a `source` property and will be absent
 * from the source map. For this reason, the plugin developer should
 * consider cloning nodes to create new ones (in which case the new node’s
 * source will refer to the original, cloned node) or setting
 * the `source` property manually.
 *
 * Every parser saves its own properties,
 * but the default CSS parser uses:
 *
 * * `before`: the space symbols before the node. It also stores `*`
 *   and `_` symbols before the declaration (IE
 * hack).
 * * `after`: the space symbols after the last child of the node
 *   to the end of the node.
 * * `between`: the symbols between the property and value
 *   for declarations, selector and `{` for rules, or last
 *   parameter
 *   and `{` for at-rules.
 * * `semicolon`: contains true if the last child has
 *   an (optional)
 *   `;`.
 * * `left`: the space
 *   symbols between `/*` and the comment’s text.
 * * `right`: the space symbols between the comment’s text
 *   and `<code>*\/#47;</code>
 */

export default Node;
to filter at-rules by name

```javascript
@link Container#each
```
{\n
nodes = [new AtRule(nodes)];\n } else if (nodes.text) {\n
nodes = [new Comment(nodes)];\n
}
else {\n
throw new Error('Unknown node type in node creation');\n
}\n }\n\n const processed =
nodes.map(i => {\n
if (typeof i.raws === 'undefined') i = this.rebuild(i);\n\n
if (i.parent) i = i.clone();\n
if
(typeof i.raws.before === 'undefined') {\n
if (sample && typeof sample.raws.before !== 'undefined') {\n
i.raws.before = sample.raws.before.replace(/[^\\s]/g, '');\n
}\n
}\n
i.parent = this;\n
return i;\n });\n\n
return processed;\n }\n\n rebuild(node, parent) {\n let fix;\n if (node.type === 'root') {\n
fix = new Root();\n
} else if (node.type === 'atrule') {\n
fix = new AtRule();\n } else if (node.type === 'rule') {\n
fix = new
Rule();\n } else if (node.type === 'decl') {\n
fix = new Declaration();\n } else if (node.type === 'comment')
{\n
fix = new Comment();\n }\n\n for (const i in node) {\n
if (i === 'nodes') {\n
fix.nodes =
node.nodes.map(j => this.rebuild(j, fix));\n
} else if (i === 'parent' && parent) {\n
fix.parent = parent;\n
}
else if (node.hasOwnProperty(i)) {\n
fix[i] = node[i];\n
}\n }\n\n return fix;\n }\n\n eachInside(callback)
{\n warnOnce('Container#eachInside is deprecated. ' + 'Use Container#walk instead.');\n return
this.walk(callback);\n }\n\n eachDecl(prop, callback) {\n warnOnce('Container#eachDecl is deprecated. ' + 'Use
Container#walkDecls instead.');\n return this.walkDecls(prop, callback);\n }\n\n eachRule(selector, callback) {\n
warnOnce('Container#eachRule is deprecated. ' + 'Use Container#walkRules instead.');\n return
this.walkRules(selector, callback);\n }\n\n eachAtRule(name, callback) {\n warnOnce('Container#eachAtRule is
deprecated. ' + 'Use Container#walkAtRules instead.');\n return this.walkAtRules(name, callback);\n }\n\n
eachComment(callback) {\n warnOnce('Container#eachComment is deprecated. ' + 'Use
Container#walkComments instead.');\n return this.walkComments(callback);\n }\n\n get semicolon() {\n
warnOnce('Node#semicolon is deprecated. Use Node#raws.semicolon');\n return this.raws.semicolon;\n }\n\n set
semicolon(val) {\n warnOnce('Node#semicolon is deprecated. Use Node#raws.semicolon');\n
this.raws.semicolon = val;\n }\n\n get after() {\n warnOnce('Node#after is deprecated. Use Node#raws.after');\n
return this.raws.after;\n }\n\n set after(val) {\n warnOnce('Node#after is deprecated. Use Node#raws.after');\n
this.raws.after = val;\n }\n\n /**\n * @memberof Container#\n * @member {Node[]} nodes - an array
containing the container’s children\n *\n * @example\n * const root = postcss.parse('a { color: black }');\n *
root.nodes.length
//=> 1\n * root.nodes[0].selector
//=> 'a'\n * root.nodes[0].nodes[0].prop //=> 'color'\n
*/\n}\n\nexport default Container;\n","// @flow\nimport Container from './container';\nimport warnOnce from
'./warn-once';\n\n/**\n * Represents an at-rule.\n *\n * If it’s followed in the CSS by a {} block, this node will
have\n * a nodes property representing its children.\n *\n * @extends Container\n *\n * @example\n * const root =
postcss.parse('@charset \"UTF-8\"; @media print {}');\n *\n * const charset = root.first;\n * charset.type //=>
'atrule'\n * charset.nodes //=> undefined\n *\n * const media = root.last;\n * media.nodes //=> []\n */\nclass AtRule
extends Container {\n constructor(defaults) {\n super(defaults);\n this.type = 'atrule';\n }\n\n
append(...children) {\n if (!this.nodes) this.nodes = [];\n return super.append(...children);\n }\n\n
prepend(...children) {\n if (!this.nodes) this.nodes = [];\n return super.prepend(...children);\n }\n\n get
afterName() {\n warnOnce('AtRule#afterName was deprecated. Use AtRule#raws.afterName');\n return
this.raws.afterName;\n }\n\n set afterName(val) {\n warnOnce('AtRule#afterName was deprecated. Use
AtRule#raws.afterName');\n this.raws.afterName = val;\n }\n\n get _params() {\n warnOnce('AtRule#_params
was deprecated. Use AtRule#raws.params');\n return this.raws.params;\n }\n\n set _params(val) {\n
warnOnce('AtRule#_params was deprecated. Use AtRule#raws.params');\n this.raws.params = val;\n }\n\n /**\n
* @memberof AtRule#\n * @member {string} name - the at-rule’s name immediately follows the `@`\n *\n *
@example\n * const root = postcss.parse('@media print {}');\n * media.name //=> 'media'\n * const media =
root.first;\n */\n\n /**\n * @memberof AtRule#\n * @member {string} params - the at-rule’s parameters, the
values\n *
that follow the at-rule’s name but precede\n *
any {} block\n *\n *
@example\n * const root = postcss.parse('@media print, screen {}');\n * const media = root.first;\n *
media.params //=> 'print, screen'\n */\n\n /**\n * @memberof AtRule#\n * @member {object} raws Information to generate byte-to-byte equal\n *
node string as it was in the origin input.\n *\n *
Every parser saves its own properties,\n * but the default CSS parser uses:\n *\n * * `before`: the space symbols
before the node. It also stores `*`\n * and `_` symbols before the declaration (IE hack).\n * * `after`: the space

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```
```
produced this Result instance:

```javascript
*result = new Result(processor, root, opts);
```

> *result = new Result(processor, root, opts);

The `Result` constructor takes three arguments: a `Processor` instance, a `Root` object, and an `options` object.

- **Processor**: This is the PostCSS processor instance that was used to transform the input CSS.
- **Root**: This is the parsed Root object representing the input CSS.
- **Options**: This is a `Object` with options that affect the result of the transformation.

Inside the constructor, the `Result` object is created with the following properties:

- `processor`: A readable property that returns the `Processor` instance.
- `root`: A readable property that returns the `Root` object.
- `opts`: A readable property that returns the `options` object.

These properties allow you to access important aspects of the result of the transformation:

- `processor`: Useful for accessing the processor's features and plugins.
- `root`: Useful for accessing the transformed CSS.
- `opts`: Useful for accessing any options that were used during the transformation.

Here's an example of how you might use these properties:

```javascript
const result = new Result(processor, root, opts);
console.log(result.processor);
console.log(result.root);
console.log(result.opts);
```

These properties are important for understanding the transformation process and its effects on the input CSS.

---

This is a brief overview of how the `Result` class is used to represent the output of the PostCSS transformation process. It provides a convenient way to access the processed CSS, the processor instance, and any options used during the transformation.

---

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---
this.result.processor.plugins.forEach(plugin => {
  if (isPromise(promise)) {
    throw new Error('Use process(css).then(cb) to work with async plugins
');
  }
  try {
    this.run(plugin);
  } catch (error) {
    this.handleError(error, plugin);
  }
})

return this.result;

this.run(plugin) {
  this.result.lastPlugin = plugin;

  try {
    return plugin(this.result.root,
    this.result);
  } catch (error) {
    this.handleError(error, plugin);
    throw error;
  }
}

this.stringify() {

  if (this.stringified) return this.result;
  this.stringified = true;

  this.sync();

  const opts = this.result.opts
  let str = stringify;
  if (opts.syntax) str = opts.syntax.stringify;
  if (opts.stringify) str = opts.stringify;

  let result = '';
  str(this.root, i => {
    result += i;
  });
  this.result.css = result;

  return this.result;
}

export default LazyResult;

// @flow
import LazyResult from './lazy-result';

/**
 * @callback builder
 * @param {string} part - part of generated CSS connected to this
 * node
 * @param {Node} node - AST node
 * @param {string} type - node’s part type
 */

/**
 * @callback parser
 *
 * @param {string} css - string with input CSS, or any object
 * with toString() method, like a Buffer
 * @param {Object} opts - options with only `from`,
 * and `map` keys
 * @return {Root} PostCSS AST
 */

/**
 * @callback stringifier
 *
 * @param {Node} node - start node for stringifying. Usually
 * @link Root
 * @param {builder} builder - function to concatenate
 * CSS from node’s parts
 * or generate string and source map
 * @param {stringifier} stringify - function to generate string
 * by syntax AST
 * @param {stringifier} stringifier - function to generate string
 * from node
 * @param {stringifier} stringifier - function to generate string
 * from node
 * @param {stringifier} stringifier - function to generate string
 * from node
 */

/**
 * @typedef {Object} syntax
 * @property {parser} parse - function to generate AST by string
 * @property {stringifier} stringify - function to generate string
 * @property {stringifier} stringify - function to generate string
 */

/**
 * @typedef {Object} toString
 *
 * @property {Function} toString
 */

/**
 * @typedef {Object} pluginFunction
 * @param {Root} root - parsed input
 * CSS
 * @param {Result} result - result to set warnings or check other plugins
 * @param {Object} result - result to set warnings or check other plugins
 */

/**
 * @typedef {Object} Plugin
 * @property {Function} postcss - PostCSS plugin function
 */

/**
 * @typedef {Object} processOptions
 * @property {string} from - the path of the CSS source file
 * @property {string} to - the path where you’ll put the output
 */

/**
 * Contains plugins to process CSS. Create one `Processor` instance,
 * initialize its plugins, and then use that instance on numerous CSS files.
 * Constructor parameter `processor` initialize its plugins, and then use that
 * instance on numerous CSS files.
 * 
 * Contains plugins to process CSS. Create one `Processor` instance,
 * initialize its plugins, and then use that instance on numerous CSS files.
 */

class Processor {

  /**
   * @param {Plugin|Function|Array.<Plugin|Function>} plugins - PostCSS
   * plugins. See {@link @link Processor#use for plugin format
 * @param {Array} plugins - PostCSS plugins. See
 * @link Processor#use for plugin format
 * @param {String} string - string of generated CSS
 */

  constructor(plugins = []) {
    /**
     * @property {string} - Current PostCSS version.
     * 
     * @example
     * if (result.processor.version.split('.')[0] !== '5') {
     *   throw new Error('This plugin works only with PostCSS 5
     * };
     */
  }
}

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function. PostCSS will pass the function a `@link Root` instance and the processor will use the instance and the processor will return a `@link Result` instance. The `@link Plugin` function will use the method described in #2. Another `@link Processor` instance. PostCSS will copy plugins into that instance.

Plugins can also be added by passing them as arguments when creating a `@link Processor` instance (see `[@postcss(plugins)]`).

Asynchronous plugins should return a `Promise` instance.

Any object with a `toString()` method, like a Buffer, can be passed as the argument.

Options can be passed as properties.

Optionally, send a `@link Result` instance and the processor will return a `@link Result` Promise.

Because some plugins can be asynchronous it doesn't make sense to apply them in the previous `@link LazyResult` methods.

@link PluginFunction[Processor] plugin - PostCSS plugin

or `[@link Processor] plugin` with plugins

* `@example` * const processor = postcss()

* `.use(autoprefixer)`

* `.use(precss)`

* `@return` (Processes) current processor to make methods chainable.

* `.process(plugin)`

* `.this.plugins = this.plugins.concat(this.normalizer([plugin]));` return this;

* `@property {string} file - path to file`
* `@property {number} line - source line in file`
* `@property {number}`

```javascript
import CssSyntaxError from './css-syntax-error';
// import
```
split;
for (split = colon - 1; split >= 0; split--) {
  if (tokens[split][0] === `'word') break;
}
for (split = 1; split >= 0; split--) {
  if (tokens[split][0] === `space`) {
    split += 1;
    break;
  }
}
const other = tokens.splice(split, tokens.length - split);

this.dec(other);

checkMissedSemicolon() {
  if (this.current.nodes & this.current.nodes.length)
    this.current.raws.semicolon =
    this.semicolon;
  this.current.raws.after = (this.current.raws.after || `" + ` + this.spaces);
  while (this.current.parent) {
    this.current = this.current.parent;
    this.current.raws.after = `" `;
  }
}

endFile() {
  if (this.current.nodes && this.current.nodes.length) {
    this.current.raws.semicolon =
    this.semicolon;
  }
  this.current.raws.after = (this.current.raws.after || `" ` + this.spaces);
  while (this.current.parent) {
    this.current = this.current.parent;
    this.current.raws.after = `" `;
  }
}

@flow
import Input from '../postcss/input';

import SafeParser from './safe-parser';

export default function
safeParse(css, opts) {
  const input = new Input(css, opts);

  const parser = new SafeParser(input);
  parser.tokenize();
  parser.loop();
  return parser.root;
}

eslint-disable
/* eslint-disable import/no-unresolved */
import transformDeclPairs from 'css-to-react-native';

import generateComponentId from '../utils/generateComponentId';
import type { RuleSet, StyleSheet } from '../types';
import flatten from '../utils/flatten';

let generated = {};

export const resetStyleCache = () => {
  generated = {};
};

/*
 * InlineStyle takes arbitrary CSS and
 * generates a flat object
 */
export default (styleSheet: StyleSheet) => {
  class InlineStyle {
    rules: RuleSet;

    constructor(rules: RuleSet) {
      this.rules = rules;
    }

    generateStyleObject(executionContext: Object) {
      const flatCSS = flatten(this.rules, executionContext).join(`
`);
      const hash = generateComponentId(flatCSS);
      if (!generated[hash]) {
        const root = parse(flatCSS);
        const declPairs = [
          `borderRadius`,
          `borderWidth`,
          `borderColor`,
          `borderStyle`,
        ];
        root.each(node => {
          if (node.type === `decl`) {
            declPairs.push([node.prop, node.value]);
          } else if (process.env.NODE_ENV !== `production` && node.type !== `comment`) {
            /* eslint-disable no-console */
            console.warn(`Node of type ${node.type} not supported as an inline
 * style`);
          }
        });
        // RN currently does not support differing values for the corner radii of Image
 // (components, but does for View). It is almost impossible to tell whether we'll have
 // support, so we'll just
 disable multiple values here.
 // https://github.com/styled-components/css-to-react-native/issues/11
 const styleObject = transformDeclPairs(declPairs, [
          `borderRadius`,
          `borderWidth`,
          `borderColor`,
        ]);

        const styles = styleSheet.create({
          generated: styleObject,
        });
        generated[hash] = styles.generated;
      }
      return generated[hash];
    }
  }

  return InlineStyle;
};

eslint-disable */
/**
 * mixin-deep; https://github.com/jonschlinkert/mixin-deep
 * Inlined such that it will be
 * consistently transpiled to an IE-compatible syntax.
 */

const isObject = val => {
  return (typeof val === `function` || (typeof val === `object` && val !== null && !Array.isArray(val)));
};

const isValidKey = key => {
  return key !== `__proto__` && key !== `constructor` && key !== `prototype`;
};

function mixin(target, val, key) {
  const obj = target[key];
  if (isObject(val) && isObject(obj)) {
    mixinDeep(obj, val);
  } else {
    target[key] = val;
  }
}

export default function mixinDeep(target, ...rest) {
  for (const obj of rest) {
    if (isObject(obj)) {
      for (const key in obj) {
        if (isValidKey(key)) {
          mixin(target, obj[key], key);
        }
      }
    }
  }

  return target;
};

// @flow
import { EMPTY_OBJECT } from './empties';

type Props = {
  theme?: any,
};

export default (props: Props, providedTheme: any, defaultProps: any = EMPTY_OBJECT) => {
  return (props.theme !== defaultProps.theme && props.theme) || providedTheme || defaultProps.theme;
};
@flow
import type { IStyledComponent } from '../types';

export default function isTag(target:
  $PropertyType<IStyledComponent, 'target'>): boolean %checks {
  return (
    typeof target === 'string' &&
    (process.env.NODE_ENV !== 'production'
      ? target.charAt(0) === target.charAt(0).toLowerCase()
      : true)
  );
}

export default function generateDisplayName(
  target: $PropertyType<IStyledComponent, 'target'>
): string {
  return isTag(target) ? `styled.${target}` :
    `Styled(${getComponentName(target)})`;
}

export type Theme = { [key: string]: mixed };

export const ThemeContext: Context<Theme | void> = React.createContext();

export const ThemeConsumer = ThemeContext.Consumer;

function mergeTheme(theme: ThemeArgument,
  outerTheme?: Theme): Theme {
  if (!theme) {
    return throwStyledError(14);
  }

  if (isFunction(theme)) {
    const mergedTheme = theme(outerTheme);

    if (process.env.NODE_ENV !== 'production' &&
      Array.isArray(mergedTheme) || typeof mergedTheme !== 'object') {
      return throwStyledError(7);
    }

    return mergedTheme;
  }

  if (Array.isArray(theme) || typeof theme !== 'object') {
    return throwStyledError(8);
  }

  return outerTheme ? { ...outerTheme, ...theme } :
    theme;
}

/**
 * Provide a theme to an entire react component tree via context
 */
export default function ThemeProvider(props: Props) {
  const outerTheme = useContext(ThemeContext);
  const themeContext = useMemo(() => mergeTheme(props.theme, outerTheme), [
    props.theme,
    outerTheme,
  ]);

  if (!props.children) {
    return null;
  }

  return <ThemeContext.Provider
    value={themeContext}>{props.children}</ThemeContext.Provider>;
}

const generateDisplayName = function isTag(target:
  $PropertyType<IStyledComponent, 'target'>): boolean %checks {
  return (
    typeof target === 'string' &&
    (process.env.NODE_ENV !== 'production'
      ? target.charAt(0) === target.charAt(0).toLowerCase()
      : true)
  );
}

export default function generateDisplayName(
  target: $PropertyType<IStyledComponent, 'target'>
): string {
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  }

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  const themeContext = useMemo(() => mergeTheme(props.theme, outerTheme), [
    props.theme,
    outerTheme,
  ]);

  if (!props.children) {
    return null;
  }

  return <ThemeContext.Provider
    value={themeContext}>{props.children}</ThemeContext.Provider>;
}
Object, attrs: Attrs) {

  const context = {
    ...props, theme
  };

  if (!attrs.length) return context;

  this.attrs = {};

  attrs.forEach(attrDef => {
    const resolvedAttrDef = attrDef;
    const key = key;

    if (isFunction(resolvedAttrDef)) {
      resolvedAttrDef = resolvedAttrDef(context);
    }

    if (isTargetStyledComp && typeof resolvedAttrDef === 'function') {
      resolvedAttrDef = resolvedAttrDef(context);
    }

    const executionContext = this.buildExecutionContext(
      theme,
      props,
      props.forwardedComponent.attrs
    );

    return inlineStyle.generateStyleObject(executionContext);
  });

  return context;

  const finalAttrs = this.root
    .isTargetStyledComp && target.attrs
    ? Array.prototype.concat(target.attrs, attrs).filter(Boolean)
    : attrs;

  let shouldForwardProp = options.shouldForwardProp;

  if (isTargetStyledComp && target.shouldForwardProp) {
    shouldForwardProp = (prop, filterFn, elementToBeCreated) =>
      target.shouldForwardProp(prop, filterFn, elementToBeCreated) &&
      options.shouldForwardProp(prop, filterFn, elementToBeCreated);
  } else {
    shouldForwardProp = target.shouldForwardProp;
  }

  /**
   * forwardRef creates a new interim component, which we'll take advantage of
   * instead of extending ParentComponent to create _another_ interim class
   */

  WrappedStyledNativeComponent.attrs = finalAttrs;
  WrappedStyledNativeComponent.displayStyle = displayStyle;
  WrappedStyledNativeComponent.inlineStyle = new InlineStyle;

  WrappedStyledNativeComponent.target = isTargetStyledComp
    ? WrappedStyledNativeComponent
    : target;

  WrappedStyledNativeComponent.styleId = 'StyledNativeComponent';

  WrappedStyledNativeComponent.styleId = this.target;

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  WrappedStyle
result;}
};

//@flow
import interleave from '../utils/interleave';
import isPlainObject from 'utils/isPlainObject';
import { EMPTY_ARRAY } from 'utils/empties';
import isFunction from 'utils/isFunction';
import flatten from 'utils/flatten';
import type { Interpolation, RuleSet, Styles } from 'types';

/**
 * Used when flattening object styles to determine if we should expand an array of styles.
 */
const addTag = arg => {
  if (Array.isArray(arg)) {
    // eslint-disable-next-line no-param-reassign
    arg.isCss = true;
  }
  return arg;
};

export default function css(styles: Styles, ...interpolations: Array<Interpolation>): RuleSet {
  if (isFunction(styles) || isPlainObject(styles)) {
    // $FlowFixMe
    return addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));
  }

  if (interpolations.length === 0 && styles.length === 1 && typeof styles[0] === 'string') {
    // $FlowFixMe
    return styles;
  }

  // $FlowFixMe
  return addTag(flatten(interleave(styles, interpolations)));
}

//@flow
import { isValidElementType } from 'react-is';
import css from './css';
import throwStyledError from '../utils/error';
import { EMPTY_OBJECT } from '../utils/empties';

import type { Target } from '../types';

export default function constructWithOptions(
  componentConstructor: Function,
  tag: Target,
  options: Object = EMPTY_OBJECT
) {
  if (!isValidElementType(tag)) {
    return throwStyledError(1, String(tag));
  }

  // This is callable directly as a template function
  // $FlowFixMe: Not typed to avoid destructuring arguments
  const templateFunction = (...args) => componentConstructor(tag, options, css(...args));

  // If config methods are called, wrap up a new template function and merge options
  // $FlowFixMe: not typed to avoid destructuring arguments
  templateFunction.withConfig = config =>
    constructWithOptions(componentConstructor, tag, { ...options, ...config });

  // Modify/inject new props at runtime
  // $FlowFixMe: templateFunction.attrs = attrs =>
  const templateFunction = (props) =>
    constructWithOptions(componentConstructor, tag, { ...options, attrs: Array.prototype.concat(options.attrs, props).filter(Boolean) });

  return templateFunction;
}

//@flow
import React, { useContext, type AbstractComponent } from 'react';
import hoistStatics from 'hoist-non-react-statics';
import { ThemeContext } from '../models/ThemeProvider';
import determineTheme from '../utils/determineTheme';
import getComponentName from 'utils/getComponentName';

// NOTE: this would be the correct signature:
// export default <Config: { theme?: any }, Instance>(
//  Component: AbstractComponent<Config, Instance>
// ):
// AbstractComponent<$Diff<Config, { theme?: any }>, Instance>
//
// but the old build system tooling doesn't support the
// syntax

export default (Component: AbstractComponent<*, *>) => {
  const WithTheme = React.forwardRef((props, ref) => {
    const theme = useContext(ThemeContext);
    const { defaultProps } = Component;
    const themeProp = determineTheme(props, theme, defaultProps);

    if (process.env.NODE_ENV !== 'production' && themeProp === undefined) {
      // eslint-disable-next-line no-console
      console.warn(`[withTheme] You are not using a ThemeProvider nor passing a theme prop or a
    theme in defaultProps in component class "${getComponentName(Component)}"`);
    }

    return <Component {...props} theme={themeProp} ref={ref} />;
  });

  hoistStatics(WithTheme, Component);

  WithTheme.displayName = `WithTheme(${getComponentName(Component)})`;

  return WithTheme;
};

//@flow
import { useContext } from 'react';
import { ThemeContext } from '../models/ThemeProvider';

const useTheme = () => useContext(ThemeContext);

export default useTheme;

/* eslint-disable import/no-unresolved */
import reactPrimitives from 'react-primitives';

import _InlineStyle from '../models/InlineStyle';
import _StyledNativeComponent from '../models/StyledNativeComponent';

import css from '../constructors/css';
import constructWithOptions from '../constructors/constructWithOptions';
import ThemeProvider, { ThemeConsumer, ThemeContext } from '../models/ThemeProvider';
import withTheme from '../hoc/withTheme';
import useTheme from '../hooks/useTheme';
import isStyledComponent from '../utils/isStyledComponent';

import type { Target } from '../types';

const InlineStyle = _InlineStyle(reactPrimitives.StyleSheet);
const StyledNativeComponent = _StyledNativeComponent(InlineStyle);
const styled = (tag: Target) =>
  constructWithOptions(StyledNativeComponent, tag);

/* React native lazy-requires each of these modules for
 *  some reason, so let's not eagerly load them all */
const aliases = 'Image Text Touchable View';

// Define a getter for each alias which simply gets the reactNative component
* and passes
Open Source Used in Cisco Telemetry Broker On Prem 1.3.1

5787
Open Source Used in Cisco Telemetry Broker On Prem 1.3.1
No license file was found, but licenses were detected in source scan.

```javascript

const AD_REPLACER_R = /(a)(d)/gi;

// This is the "capacity" of our alphabet i.e. 2x26 for all letters plus their capitalised counterparts *\ncharsLength = 52;\n
const getAlphabeticChar = (code: number): string =>
  String.fromCharCode(code + (code > 25 ? 39 : 97));

/* input a number, usually a hash and convert it to base-52 */
export default function generateAlphabeticName(code: number): string {
  let name = '';\n  let x;\n
  /* get a char and divide by alphabet-length */
  for (x = Math.abs(code); x > charsLength; x = (x / charsLength) | 0) {\n    name = getAlphabeticChar(x % charsLength) + name;
  }

  return (getAlphabeticChar(x % charsLength) + name).replace(AD_REPLACER_R, '$1-$2');
}

export const SEED = 5381;

// This is a djb2 hashing function
export const hash = (x: string): number => {
  return phash(SEED, x);
};

export default function getComponentName(
  target:
) =>
  (process.env.NODE_ENV !== 'production' ? typeof target === 'string' && target : false) ||
  target && typeof target === 'object' &&
  (!target.displayName ||
  target.name ||
  'Component');

export default function isFunction(test: any): boolean {
  return typeof test === 'function';
}

export default function isStatelessFunction(test: any): boolean {
  return (typeof test === 'function'
    && !(
      test.prototype
      && test.prototype.isReactComponent
    ));
}

export default (x: any): boolean =>
  x !== null &&
  typeof x === 'object' &&
  (!x.toString ? Object.prototype.toString.call(x) : x.toString)();

Object.prototype.toString.call(x) === '[object Object]' &&

// If not Export default function isStyledComponent(target: any): boolean {

```
'string';

export const SC_DISABLE_SPEEDY: ?boolean;
declare var __VERSION__: string;

export const SC_ATTR: string =
  (typeof process !== 'undefined' &&
    (process.env.REACT_APP_SC_ATTR || process.env.SC_ATTR)) ||
    'data-styled';

export const SC_ATTR_ACTIVE = 'active';

export const SC_ATTR_VERSION = __VERSION__;

export const SPLITTER = '/*!sc*/
';

export const IS_BROWSER = typeof window !== 'undefined' && 'HTMLElement' in window;

export const DISABLE_SPEEDY =
  Boolean(typeof
    process.env.REACT_APP_SC_DISABLE_SPEEDY !== 'undefined' &&
    process.env.REACT_APP_SC_DISABLE_SPEEDY !== ''
      ? process.env.REACT_APP_SC_DISABLE_SPEEDY
      : (typeof process !== 'undefined' &&
        process.env.SC_DISABLE_SPEEDY !== ''
          ? process.env.SC_DISABLE_SPEEDY
          : process.env.NODE_ENV !== 'production'
        )
    );

// Shared empty execution context when generating static
styles
export const STATIC_EXECUTION_CONTEXT = {};

// Shared empty execution context when generating static
styles
export const EMPTY_ARRAY = Object.freeze([]);
export const EMPTY_OBJECT = Object.freeze({});

export default {

"1": "Cannot create styled-component for component: %s.\n\n","2": "Can't collect styles once you've consumed a `ServerStyleSheet`'s styles! `ServerStyleSheet` is a one off instance for each server-side render cycle.\n\n- Are you trying to reuse it across renders?\n- Are you accidentally calling collectStyles twice?\n\n","3": "Streaming SSR is only supported in a Node.js environment; Please do not try to call this method in the browser.\n\n- Are you trying to run SSR on the server?\n- Are you trying to run SSR on the client?\n\n","4": "The `StyleSheetManager` expects a valid target or sheet prop!\n\n- Does this error occur on the client and is your target falsy?\n- Does this error occur on the server and is the sheet falsy?\n\n","5": "Can't collect styles once you've consumed a `ServerStyleSheet`'s styles! `ServerStyleSheet` is a one off instance for each server-side render cycle.\n\n- Are you trying to reuse it across renders?\n- Are you accidentally calling collectStyles twice?\n\n","6": "Can't collect styles once you've consumed a `ServerStyleSheet`'s styles! `ServerStyleSheet` is a one off instance for each server-side render cycle.\n\n- Are you trying to reuse it across renders?\n- Are you accidentally calling collectStyles twice?\n\n","7": "ThemeProvider: Please return an object from your `\"theme\"` prop function, e.g.\n\n```js\ntheme={() => ({})}\n```\n\n","8": "ThemeProvider: Please make your `\"theme\"` prop an object.\n\n","9": "Missing document `<head>`\n\n","10": "Cannot find a StyleSheet instance. Usually this happens if there are multiple styles-components loaded at once. Check out this issue for how to troubleshoot and fix the common cases where this situation can happen: https://github.com/styled-components/styled-components/issues/1941#issuecomment-417862021\n\n","11": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","12": "It seems you are interpolating a keyframe declaration (%s) into an untagged string. This was supported in styled-components v3, but is not longer supported in v4 as keyframes are now injected on-demand. Please wrap your string in the css\\`css\\` helper which ensures the styles are injected correctly. See https://www.styled-components.com/docs/api#css\n\n","13": "%s is not a styled component and cannot be referred to via component selector. See https://www.styled-components.com/docs/advanced#referring-to-other-components for more details.\n\n","14": "ThemeProvider: `\"theme\"` prop is required.\n\n","15": "A stylis plugin has been supplied that is not named. We need a name for each plugin to be able to prevent styling collisions between different stylis configurations within the same app.\n\n","16": "Reached the limit of how many styled components may be created at group %s.\n\n","17": "CSSStyleSheet could not be found on HTMLStyleElement.\n\nHas styled-components' style tag been unmounted or altered by another script?\n\n","18": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","19": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","20": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","21": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","22": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","23": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","24": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","25": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","26": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","27": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","28": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","29": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","30": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","31": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","32": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","33": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","34": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","35": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","36": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","37": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","38": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","39": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","40": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","41": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","42": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","43": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","44": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","45": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","46": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","47": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","48": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","49": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","50": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","51": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","52": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","53": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","54": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","55": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","56": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","57": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","58": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","59": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n","60": "This error was replaced with a dev-time warning, it will be deleted for v4 final.\n\n",//

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for (let c = 1, len = args.length; c < len; c += 1) {
  b.push(args[c]);
}

b.forEach(d => {
  a = a.replace(/%[a-z]/, d);
});

return a;
}

/**
 * Create an error file out of errors.md for development and a
 * simple web link to the full errors
 * in production mode.
 */
export default function
throwStyledComponentsError(
  code: string | number,
  ...interpolations: Array<any>
) {
  if
(process.env.NODE_ENV === 'production') {
    throw new Error(
      `An error occurred. See
https://git.io/JUIaE#${code} for more information.${
        interpolations.length > 0 ? ` Args:
${interpolations.join(', ')}
` : ''}
    );
  } else {
    throw new Error(format(ERRORS[code],
...interpolations).trim());
  }
}

/**
 * Create a GroupedTag with an underlying Tag implementation
 */
export const
makeGroupedTag = (tag: Tag): GroupedTag => {
  return new DefaultGroupedTag(tag);
};

/**
 * Create a GroupedTag with an underlying Tag implementation
 */
export class DefaultGroupedTag implements GroupedTag {
  groupSizes: Uint32Array;

  length: number;

  tag: Tag;

  constructor(tag: Tag) {
    this.groupSizes = new Uint32Array(BASE_SIZE);
    this.length = BASE_SIZE;
    this.tag = tag;
  }

  insertRules(group: number, rules: string[]): void {
    if (group >= this.groupSizes.length) {
      const oldBuffer = this.groupSizes;
      const oldSize = oldBuffer.length;
      let newSize = oldSize;
      while (group >= newSize) {
        newSize <<= 1;
        if (newSize < 0) {
          throwStyledError(16, `${group}`);
        }
      }
      this.groupSizes = new Uint32Array(newSize);
      this.groupSizes.set(oldBuffer);
      this.length = newSize;
    }

    let ruleIndex = this.indexOfGroup(group + 1);
    for (let i = 0, l = rules.length; i < l; i++) {
      if (this.tag.insertRule(ruleIndex,
        rules[i])) {
        this.groupSizes[group]++;
        ruleIndex++;
      }
    }
  }

  clearGroup(group: number): void {
    if (group < this.length) {
      const length = this.groupSizes[group];
      const startIndex = this.indexOfGroup(group);
      const endIndex = startIndex + length;
      this.groupSizes[group] = 0;
      for (let i = startIndex; i < endIndex; i++) {
        this.tag.deleteRule(startIndex);
      }
    }
  }

  getGroup(group: number): string {
    let css = '';
    if (group >= this.length || this.groupSizes[group] === 0) {
      return css;
    }

    const length = this.groupSizes[group];
    const startIndex = this.indexOfGroup(group);
    const endIndex = startIndex + length;
    for (let i = startIndex; i < endIndex; i++) {
      css += `${this.tag.getRule(i)}${SPLITTER}`;
    }
    return css;
  }
}

export const
resetGroupIds = () => {
  groupIDRegister = new Map();
  reverseRegister = new Map();
  nextFreeGroup = 1;
};

export const
getGroupForId = (id: string): number => {
  if (groupIDRegister.has(id)) {
    return (groupIDRegister.get(id): any);
  }

  while (reverseRegister.has(nextFreeGroup)) {
    nextFreeGroup++;
  }

  const group = nextFreeGroup++;
  if
(process.env.NODE_ENV !== 'production' &&
  ((group | 0) < 0 || group > MAX_SMI)) {
    throwStyledError(16, `$[group]`);
  }

  groupIDRegister.set(id, group);
  reverseRegister.set(group, id);
  return group;
};

export const
getIdForGroup = (group: number): void => {
  return reverseRegister.get(group);
};

export const
setGroupForId = (id: string, group: number) => {
  if (group >= nextFreeGroup) {
    nextFreeGroup = group + 1;
  }

  groupIDRegister.set(id, group);
  reverseRegister.set(id, group);
};

export const
getGroupForId = (id: number): GroupedTag => {
  return reverseRegister.get(id);
};

export const
setGroupForId = (id: number, group: number) => {
  if
(process.env.NODE_ENV !== 'production') {
    throwStyledError(16, '$[group]');
  }

  groupIDRegister.set(id, group);
  reverseRegister.set(id, group);
  return groupIDRegister.get(id);
};

export const
resetGroupIds = () => {
  groupIDRegister = new Map();
  reverseRegister = new Map();
  nextFreeGroup = 1;
};

export const
getGroupForId = (id: number): GroupedTag => {
  return reverseRegister.get(id);
};

export const
setGroupForId = (id: number, group: number) => {
  if
(process.env.NODE_ENV !== 'production') {
    throwStyledError(16, '$[group]');
  }

  groupIDRegister.set(id, group);
  reverseRegister.set(id, group);
  return groupIDRegister.get(id);
};

export const
resetGroupIds = () => {
  groupIDRegister = new Map();
  reverseRegister = new Map();
  nextFreeGroup = 1;
};

export const
getGroupForId = (id: number): GroupedTag => {
  return reverseRegister.get(id);
};

export const
setGroupForId = (id: number, group: number) => {
  if
(process.env.NODE_ENV !== 'production') {
    throwStyledError(16, '$[group]');
  }

  groupIDRegister.set(id, group);
  reverseRegister.set(id, group);
  return groupIDRegister.get(id);
}
const rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {
  const names = content.split(',');
  let name;

  for (let i = 0, l = names.length; i < l; i++) {
    if (name = names[i]) {
      sheet.registerName(id, name);
    }
  }

  return css;
};

const rehydrateSheetFromTag = (sheet: Sheet, style: HTMLStyleElement) => {
  const parts = (style.textContent || '').split(SPLITTER);
  const rules: string[] = [];

  for (let i = 0, l = parts.length; i < l; i++) {
    const part = parts[i].trim();
    if (!part) continue;

    const marker = part.match(MARKER_RE);
    if (marker) {
      const group = parseInt(marker[1], 10) | 0;
      const id = marker[2];

      if (group !== 0) {
        setGroupForId(id, group);
        rehydrateNamesFromContent(sheet, id, marker[3]);
        sheet.getTag().insertRules(group, rules);
      }
    } else {
      rules.push(part);
    }
  }

  return css;
};

export const rehydrateSheet = (sheet: Sheet) => {
  const nodes = document.querySelectorAll(SELECTOR);

  for (let i = 0, l = nodes.length; i < l; i++) {
    const node = nodes[i];
    if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE) {
      rehydrateSheetFromTag(sheet, node);
      node.parentNode.removeChild(node);
    }
  }
};

export const getNonce = () => {
  return typeof window !== 'undefined' && typeof window.__webpack_nonce__ !== 'undefined' ? window.__webpack_nonce__ : null;
};
this.length++;
      return true;
    } catch (_error) {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.sheet.deleteRule(index);
    this.length--;
  }

  getRule(index: number): string {
    const rule = this.sheet.cssRules[index];
    // Avoid IE11 quirk where cssText is inaccessible on some invalid rules
    if (rule !== undefined && typeof rule.cssText === 'string') {
      return rule.cssText;
    } else {
      return '';
    }
  }
}

/** A Tag that emulates the CSSStyleSheet API but uses text nodes */
export class TextTag implements Tag {
  element: HTMLStyleElement;

  nodes: NodeList<Node>;

  length: number;

  constructor(target?: HTMLElement) {
    const element = makeStyleTag(target);
    this.nodes = element.childNodes;
    this.length = 0;

    insertRule(index: number, rule: string): boolean {
      if (index <= this.length && index >= 0) {
        const node = document.createTextNode(rule);
        this.nodes[index] = node;
        this.length++;
        return true;
      }
      else {
        return false;
      }
  }

  deleteRule(index: number): void {
    this.nodes[index] = null;
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.nodes[index].textContent;
    } else {
      return '';
    }
  }
}

/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */
export class VirtualTag implements Tag {
  rules: string[];

  length: number;

  constructor(_target?: HTMLElement) {
    this.rules = [];
    this.length = 0;
  }

  insertRule(index: number, rule: string): boolean {
    if (index <= this.length) {
      this.rules.splice(index, 0, rule);
      this.length++;
      return true;
    }
    else {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.rules.splice(index, 1);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.rules[index];
    } else {
      return '';
    }
  }
}

/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */
export class VirtualTag implements Tag {
  rules: string[];

  length: number;

  constructor(_target?: HTMLElement) {
    this.rules = [];
    this.length = 0;
  }

  insertRule(index: number, rule: string): boolean {
    if (index <= this.length) {
      this.rules.splice(index, 0, rule);
      this.length++;
      return true;
    }
    else {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.rules.splice(index, 1);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.rules[index];
    } else {
      return '';
    }
  }
}

/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */
export class VirtualTag implements Tag {
  rules: string[];

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  constructor(_target?: HTMLElement) {
    this.rules = [];
    this.length = 0;
  }

  insertRule(index: number, rule: string): boolean {
    if (index <= this.length) {
      this.rules.splice(index, 0, rule);
      this.length++;
      return true;
    }
    else {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.rules.splice(index, 1);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.rules[index];
    } else {
      return '';
    }
  }
}

/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */
export class VirtualTag implements Tag {
  rules: string[];

  length: number;

  constructor(_target?: HTMLElement) {
    this.rules = [];
    this.length = 0;
  }

  insertRule(index: number, rule: string): boolean {
    if (index <= this.length) {
      this.rules.splice(index, 0, rule);
      this.length++;
      return true;
    }
    else {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.rules.splice(index, 1);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.rules[index];
    } else {
      return '';
    }
  }
}

/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */
export class VirtualTag implements Tag {
  rules: string[];

  length: number;

  constructor(_target?: HTMLElement) {
    this.rules = [];
    this.length = 0;
  }

  insertRule(index: number, rule: string): boolean {
    if (index <= this.length) {
      this.rules.splice(index, 0, rule);
      this.length++;
      return true;
    }
    else {
      return false;
    }
  }

  deleteRule(index: number): void {
    this.rules.splice(index, 1);
    this.length--;
  }

  getRule(index: number): string {
    if (index < this.length) {
      return this.rules[index];
    } else {
      return '';
    }
  }
}
```javascript
/**
 * MIT License
 *
 * Copyright (c) 2016 Sultan Tarimo
 *
 * 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 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 */

import Stylis from '@emotion/stylis';
import { type Stringifier } from '../types';
import { EMPTY_ARRAY, EMPTY_OBJECT } from './empties';
import throwStyledError from './error';
import { phash, SEED } from './hash';
import insertRulePlugin from './stylisPluginInsertRule';

const COMMENT_REGEX = /^\s*\/\/*.*$/gm;
const COMPLEX_SELECTOR_PREFIX = [':', '[', '.', '#'];

type StylisInstanceConstructorArgs = {
  options?: Object,
  plugins?: Array<Function>,
};

export default function createStylisInstance({
  options = EMPTY_OBJECT,
  plugins = EMPTY_ARRAY,
} = EMPTY_OBJECT) {
  const stylis = new Stylis(options);

  // Wrap `insertRulePlugin to build a list of rules, 
  // and then make our own plugin to return the rules. This 
  // makes it easier to hook into the existing SSR 
  // architecture

  let parsingRules = [];

  // eslint-disable-next-line consistent-return
  const returnRulesPlugin = 
    context => {
      if (context === -2) {
        const parsedRules = parsingRules;
        parsingRules = [];
        return parsedRules;
      }
    };

  const parseRulesPlugin = insertRulePlugin(rule => {
    parsingRules.push(rule);
  });

  let _componentId: string;
  let _selector: string;
  let _selectorRegexp: RegExp;
  let _consecutiveSelfRefRegExp: RegExp;

  const selfReferenceReplacer = (match, offset, string) => {
    if (!match) {
      return match;
    }

    if (offset === 0 
      COMPLEX_SELECTOR_PREFIX.indexOf(string[_selector.length]) === -1 
      string.match(_consecutiveSelfRefRegExp)
    ) {
      return `.${_componentId}`;
    }

    return match;
  };

  /**
   * When writing a style like
   *
   * & + & {
   *   color: red;
   * }
   * The second ampersand should be a reference to the static component 
   * class. stylis has no knowledge of static class so we have to intelligently replace the base selector.
   *
   * https://github.com/thysultan/stylis.js/tree/v3.5.4#plugins <- more info about the context phase values
   * "2" means this plugin is taking effect at the very end after all other processing is complete
   */
```

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```javascript
// @flow
export default function hyphenateStyleName(string: string): string {
  return uppercaseCheck.test(string)
    ? string
      .replace(uppercasePattern, prefixAndLowerCase)
      .replace(msPattern, '-ms-')
    : string;
}

// @flow
import unitless from '@emotion/unitless';

// Taken from https://github.com/facebook/react/blob/b87aabdfe1b7461e7331abb3601d9e6bb27544b/packages/react-dom/src/shared/dangerousStyleValue.js
export default function addUnitIfNeeded(name: string, value: any): any {
  // https://github.com/amilajack/eslint-plugin-flowtype-errors/issues/133
  // $FlowFixMe
  if (value == null || typeof value === 'boolean' || value === '') {
    return '';
  }

  if (typeof value === 'number' && value !== 0 && !(name in unitless)) {
    return `${value}px`; // Presumes implicit 'px' suffix for unitless numbers
  }
  return String(value).trim();
}

// @flow
import { isElement } from 'react-is';
import getComponentName from './getComponentName';
import isFunction from './isFunction';
import isStatelessFunction from './isStatelessFunction';
import isPlainObject from './isPlainObject';
import isStyledComponent from './isStyledComponent';
import { type Stringifier } from '../types';

/**
 * It's falsish not falsy because 0 is allowed.
 */
const isFalsish = chunk => chunk === undefined || chunk === null || chunk === false || chunk === '';

export const objToCssArray = (obj: Object, prevKey?: string): Array<string | Function> => {
  const rules = [];

  for (const key in obj) {
    if (!obj.hasOwnProperty(key) || isFalsish(obj[key])) continue;

    if (Array.isArray(obj[key]) && obj[key].isCss) {
      rules.push(`${hyphenate(key)}:`, obj[key], ';');
    } else if (isPlainObject(obj[key])) {
      rules.push(...objToCssArray(obj[key], key));
    } else {
      rules.push(`${hyphenate(key)}:`, addUnitIfNeeded(key, obj[key]), ';');
    }
  }

  return prevKey ? `[${prevKey} {`, ...rules, '}]` : rules;
}

export default function flatten(
  chunk: any,
  executionContext: ?Object,
  styleSheet: ?Object,
  stylisInstance: ?Stringifier
): any {
  if (Array.isArray(chunk)) {
    const ruleSet = [];

    for (let i = 0, len = chunk.length, result; i < len; i += 1) {
      result = flatten(chunk[i], executionContext, styleSheet, stylisInstance);

      if (result === '') continue;
      else if (Array.isArray(result)) ruleSet.push(...result);
      else ruleSet.push(result);
    }

    return ruleSet;
  }

  if (isFalsish(chunk)) {
    return '';
  }

  /* Handle other components */
  if (isStyledComponent(chunk)) {
    return `.${chunk.styledComponentId}`;
  }

  /* Either execute or defer the function */
  if (isFunction(chunk)) {
    if (isStatelessFunction(chunk) && executionContext) {
      const result = chunk(executionContext);

      if (process.env.NODE_ENV !== 'production' && isElement(result)) {
        // eslint-disable-next-line no-console
        console.warn(getComponentName(chunk) + ' is not a styled component and cannot be referred to via component selector. See https://www.styled-components.com/docs/advanced#referring-to-other-components for more details.');
      }

      return flatten(result, executionContext, styleSheet, stylisInstance);
    } else return chunk;
  }

  if (chunk instanceof Keyframes) {
    if (styleSheet) {
      chunk.inject(styleSheet, stylisInstance);
      return chunk.getName(stylisInstance);
    } else return chunk;
  }

  /* Handle objects */
  return isPlainObject(chunk) ? objToCssArray(chunk) : chunk.toString();
}
```

---

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```javascript
const Node;

/**
 * Represents a CSS

```
node = root.first.first;
* decl.type  //=> 'decl'
* decl.toString() //=> 'color: black

.warnOnce('Node#_value was deprecated. Use Node#raws.value');

} return this.raws.value;
} 

.set _value(val) {
  warnOnce('Node#_value was deprecated. Use Node#raws.value');

  this.raws.value = val;
} 

.get _important() {
  warnOnce('Node#_important was deprecated. Use Node#raws.important');

  return this.raws.important;
} 

.set _important(val) {
  warnOnce('Node#_important was deprecated. Use Node#raws.important');

  this.raws.important = val;
} 

.raises IMPORTANT = null;
.raises IMPORTANCE = true;
.raises value = "!important";
.raises @member {node} 
.raises IMPORTANT({
  warnOnce('Node#_important was deprecated. Use Node#raws.important');

  return this.raws.important;
} 

.raises set _important(val) {
  warnOnce('Node#_important was deprecated. Use Node#raws.important');

  this.raws.important = val;
} 

.raises get _important() {
  warnOnce('Node#_important was deprecated. Use Node#raws.important');

  return this.raws.important;
} 

.raises comment(token) {
  const node = new Comment();

  this.pos += 1;
  this.endFile();

  switch (token[0]) {
    case 'at-rule':
      this.emptyRule(token);
      break;

    case 'at-word':
      this.atrule(token);
      break;

    case '{':
      this.emptyRule(token);
      break;

    default:
      this.other();
      break;
  }

  this.comment(token);
  break;

  this.ends(token);
}

.raises at rule;`import Root from './root';
.raises import Rule from './rule';
.raises import tokenizer from './tokenize';
.raises import Comment from './comment';
.raises import AtRule from './at-rule';
.raises import Declaration from './declaration';
.raises import Node from './node';
.raises import warnOnce from './warn-once';
.raises import Postcss from './postcss';
.raises import important from './important';
.raises import warnOnOnce from './warn-once';
.raises import Node from './node';
.raises * @member {object} raws - Information to generate byte-to-byte equal

.node string as it was in the origin input.

* But the default CSS parser uses:

  * * "before": the space symbols before the node. It also stores `*" and `_" symbols
  * before the declaration (IE hack).

  * * "between": the symbols between the property and value
  * for declarations, selector and `\` for rules, or last parameter
  * and `\` for at-rules.

  * * "important": the content of the important statement
  * if it is not just `!important`.

  * * PostCSS cleans declaration from comments and extra spaces.

  * but it stores origin content in raws properties.

  * As such, if you don’t change a declaration’s value
  * PostCSS will use the raw value with comments.

  * * @example

  * @memberof Declaration#
  * @member {object} raws - Information to generate byte-to-byte equal

  * The raw value can be accessed with the raws properties:

  * * `before` - space symbols before the node.
  * * `between` - symbols between the property and value
  * * `important` - `!important` annotation.

  * @example

  * const root = postcss.parse('a {
    color:black !important;
    color: red
  }');

  * root.first.first.raws //=> { before: '\n  ', between: ':' }

  * const decl = root.first.first;
  * decl.value //=> 'black'
  * decl.important //=> true
  * decl.first.important //=> undefined

  * * @memberof Node

  * * @member {string} text - the comment’s text
  * * @member {object} raws - Information to generate byte-to-byte equal

  * * Every parser saves its own properties.

  * * * but the default CSS parser uses:

  * * * "before": the space symbols before the node.

  * * * and extra spaces,

  * * * but it stores origin content in raws properties.

  * * * As such, if you don’t change a declaration’s value

  * * PostCSS will use the raw value with comments.

  * * * @example

  * * * @memberof Declaration#
  * * * @member {object} raws - Information to generate byte-to-byte equal

  * * * The raw value can be accessed with the raws properties:

  * * * * `before` - space symbols before the node.

  * * * * `between` - symbols between the property and value

  * * * * `important` - `!important` annotation.

  * * * * @example

  * * * * const root = postcss.parse('a {

  * * * * color:black !important;

  * * * * color: red

  * * * * }');

  * * * * const decl = root.first.first;

  * * * * decl.value //=> 'black'

  * * * * decl.important //=> true

  * * * * decl.first.important //=> undefined

  * * * * PostCSS cleans declaration from comments and extra spaces.
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```javascript
const type = exist === 0 ? 'prepend' : false;
    const nodes = this.normalize(add, this.nodes[exist], type).reverse();

    if (isOld(rule.name)) rule.remove();
    return rule;

    return callback(child, i);
    }
  }

  /**
   * Inserts new nodes before the old nodes within the container.
   *
   * @param {Node|number} exist             - child or child's index.
   * @param {Node|object|string|Node[]} add
   * @return {Node} this node for methods chain
   *
   * @example
   * const decl1 = postcss.decl({ prop: 'color', value: 'black' });
   * const decl2 = postcss.decl({ prop: 'background-color', value: 'white' });
   * rule.append(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   *
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
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   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
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   * rule.prepend(decl1, decl2);
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   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
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   * rule.prepend(decl1, decl2);
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   *
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   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
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   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
   * root.append({ selector: 'a' });
   * rule.prepend(decl1, decl2);
   *
```
nodes.forEach(node => this.nodes.splice(exist, 0, node));\n\n let index;\n for (const id in this.indexes) {\n
index = this.indexes[id];\n
if (exist <= index) {\n
this.indexes[id] = index + nodes.length;\n
}\n }\n\n
return this;\n }\n\n /**\n * Insert new node after old node within the container.\n *\n * @param {Node|number}
exist
- child or child’s index\n * @param {Node|object|string|Node[]} add - new node\n *\n * @return
{Node} this node for methods chain\n */\n insertAfter(exist, add) {\n exist = this.index(exist);\n\n const nodes
= this.normalize(add, this.nodes[exist]).reverse();\n nodes.forEach(node => this.nodes.splice(exist + 1, 0,
node));\n\n let index;\n for (const id in this.indexes) {\n
index = this.indexes[id];\n
if (exist < index) {\n
this.indexes[id] = index + nodes.length;\n
}\n }\n\n return this;\n }\n\n remove(child) {\n if (typeof child
!== 'undefined') {\n
warnOnce('Container#remove is deprecated. ' + 'Use Container#removeChild');\n
this.removeChild(child);\n } else {\n
super.remove();\n }\n return this;\n }\n\n /**\n * Removes node
from the container and cleans the parent properties\n * from the node and its children.\n *\n * @param
{Node|number} child - child or child’s index\n *\n * @return {Node} this node for methods chain\n *\n *
@example\n * rule.nodes.length //=> 5\n * rule.removeChild(decl);\n * rule.nodes.length //=> 4\n *
decl.parent
//=> undefined\n */\n removeChild(child) {\n child = this.index(child);\n
this.nodes[child].parent = undefined;\n this.nodes.splice(child, 1);\n\n let index;\n for (const id in this.indexes)
{\n
index = this.indexes[id];\n
if (index >= child) {\n
this.indexes[id] = index - 1;\n
}\n }\n\n return
this;\n }\n\n /**\n * Removes all children from the container\n * and cleans their parent properties.\n *\n *
@return {Node} this node for methods chain\n *\n * @example\n * rule.removeAll();\n * rule.nodes.length
//=> 0\n */\n removeAll() {\n this.nodes.forEach(node => (node.parent = undefined));\n this.nodes = [];\n
return this;\n }\n\n /**\n * Passes all declaration values within the container that match pattern\n * through
callback, replacing those values with the returned result\n * of callback.\n *\n * This method is useful if you
are using a custom unit or function\n * and need to iterate through all values.\n *\n * @param
{string|RegExp} pattern
- replace pattern\n * @param {object} opts
- options to speed up the
search\n * @param {string|string[]} opts.props - an array of property names\n * @param {string} opts.fast
- string that’s used\n *
to narrow down values and speed up\n
the regexp search\n * @param {function|string} callback - string to replace pattern\n *
or callback that returns a new\n *
value.\n *
The callback will
receive\n *
the same arguments as those\n *
passed to a
function parameter\n *
of `String#replace`.\n *\n * @return {Node} this node for
methods chain\n *\n * @example\n * root.replaceValues(/\\d+rem/, { fast: 'rem' }, string => {\n * return
15 * parseInt(string) + 'px';\n * });\n */\n replaceValues(pattern, opts, callback) {\n if (!callback) {\n
callback = opts;\n
opts = {};\n }\n\n this.walkDecls(decl => {\n
if (opts.props &&
opts.props.indexOf(decl.prop) === -1) return;\n
if (opts.fast && decl.value.indexOf(opts.fast) === -1) return;\n\n
decl.value = decl.value.replace(pattern, callback);\n });\n\n return this;\n }\n\n /**\n * Returns `true` if
callback returns `true`\n * for all of the container’s children.\n *\n * @param {childCondition} condition iterator returns true or false.\n *\n * @return {boolean} is every child pass condition\n *\n * @example\n *
const noPrefixes = rule.every(i => i.prop[0] !== '-');\n */\n every(condition) {\n return
this.nodes.every(condition);\n }\n\n /**\n * Returns `true` if callback returns `true` for (at least) one\n * of the
container’s children.\n *\n * @param {childCondition} condition - iterator returns true or false.\n *\n *
@return {boolean} is some child pass condition\n *\n * @example\n * const hasPrefix = rule.some(i =>
i.prop[0] === '-');\n */\n some(condition) {\n return this.nodes.some(condition);\n }\n\n /**\n * Returns a
`child`’s index within the {@link Container#nodes} array.\n *\n * @param {Node} child - child of the current
container.\n *\n * @return {number} child index\n *\n * @example\n * rule.index( rule.nodes[2] ) //=> 2\n
*/\n index(child) {\n if (typeof child === 'number') {\n
return child;\n } else {\n
return
this.nodes.indexOf(child);\n }\n }\n\n /**\n * The container’s first child.\n *\n * @type {Node}\n *\n *
@example\n * rule.first == rules.nodes[0];\n */\n get first() {\n if (!this.nodes) return undefined;\n return
this.nodes[0];\n }\n\n /**\n * The container’s last child.\n *\n * @type {Node}\n *\n * @example\n *
rule.last == rule.nodes[rule.nodes.length - 1];\n */\n get last() {\n if (!this.nodes) return undefined;\n return

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this.nodes[this.nodes.length - 1];
}

normalize(nodes, sample) {
  if (typeof nodes === 'string') {
    if (Array.isArray(nodes)) {
      for (let i = nodes.length - 1; i >= 0; i--) {
        if (typeof nodes[i] === 'undefined') {
          throw new Error('Value field is missed in node creation');
        }
      }
      nodes = nodes.map(i => {
        if (typeof i.raws === 'undefined') i = this.rebuild(i);
        i.parent = this;
        return i;
      });
    } else if (nodes.type === 'root') {
      nodes = nodes.nodes;
    } else if (nodes.prop) {
      if (typeof nodes.value === 'undefined') {
        throw new Error('Value field is missed in node creation');
      } else if (typeof nodes.value !== 'string') {
        nodes.value = String(nodes.value);
      }
      nodes = [new Declaration(nodes)];
    } else if (nodes.selector) {
      nodes = [new Rule(nodes)];
    } else if (nodes.type) {
      nodes = [nodes];
    } else if (nodes.type === 'root') {
      nodes = new Node();
    } else if (nodes.type) {
      throw new Error('Unknown node type in node creation');
    }

    const processed = nodes.map(i => {
      if (typeof i.raws === 'undefined') i = this.rebuild(i);
      i.parent = this;
      return i;
    });

    return processed;
  }

rebuild(node, parent) {
  let fix;
  if (node.type === 'root') {
    fix = new Root();
  } else if (node.type === 'atrule') {
    fix = new AtRule();
  } else if (node.type === 'rule') {
    fix = new Rule();
  } else if (node.type === 'decl') {
    fix = new Declaration();
  } else if (node.type === 'comment') {
    fix = new Comment();
  }

  for (const i in node) {
    if (i === 'nodes') {
      fix.nodes = node.nodes.map(j => this.rebuild(j, fix));
    } else if (i === 'parent' && parent) {
      fix.parent = parent;
    } else if (node.hasOwnProperty(i)) {
      fix[i] = node[i];
    }
  }

  return fix;
}

/**
 * Represents an at-rule.
 *
 * If it's followed in the CSS by a {} block, this node will
 * have a nodes property representing its children.
 *
 * @extends Container
 *
 * @example
 * const root  = postcss.parse('@charset "UTF-8"; @media print {}');
 * media.name //=> 'media'
 * const media = root.first;
 */
class AtRule extends Container {
  constructor(defaults) {
    super(defaults);
    this.type = 'atrule';
  }

  append(...children) {
    if (!this.nodes) this.nodes = [];
    return super.append(...children);
  }

  prepend(...children) {
    if (!this.nodes) this.nodes = [];
    return super.prepend(...children);
  }

  get afterName() {
    warnOnce('AtRule#afterName was deprecated. Use AtRule#afterName instead.);
    return this.afterName(val);
  }

  set afterName(val) {
    warnOnce('AtRule#afterName was deprecated. Use AtRule#afterName instead.);
    this.afterName = val;
  }

  constructor(defaults) {
    super(defaults);
    this.type = 'atrule';
    this.nodes = [];
  }

  append(...children) {
    if (!this.nodes) this.nodes = [];
    return super.append(...children);
  }

  prepend(...children) {
    if (!this.nodes) this.nodes = [];
    return super.prepend(...children);
  }

  get afterName() {
    warnOnce('AtRule#afterName was deprecated. Use AtRule#afterName instead.);
    return this.afterName(val);
  }

  set afterName(val) {
    warnOnce('AtRule#afterName was deprecated. Use AtRule#afterName instead.);
    this.afterName = val;
  }

  /**
   * @memberof AtRule#
   * @member {string} name - the at-rule's name immediately follows the `@`
   *
   * @example
   * const root  = postcss.parse('@charset "UTF-8"; @media print {}');
   * media.name //=> 'media'
   */

  /**
   * @memberof AtRule#
   * @member {string} params - the at-rule's parameters, the
Every parser saves its own properties, but the default CSS parser uses:

* `before`: the space symbols before the node. It also stores `^` and `_` symbols before the declaration (IE hack).
* `after`: the space symbols after the last child of the node.
* `between`: the space symbols between the property and value.
* `selector`: contains true if the last child has an (optional) semicolon.
* `afterName`: the space symbols after the last child of the node.

PostCSS cleans at-rule parameters from comments and extra spaces, but it stores origin content in raws properties. As such, if you don’t change a declaration’s value, PostCSS will use the raw content with comments.

Contains helpers for safely splitting lists of CSS values:

* `before`: the space symbols after the last child of the node.
* `between`: the space symbols between the property and value.
* `selector`: contains true if the last child has an (optional) semicolon.
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PostCSS cleans at-rule parameters from comments and extra spaces, but it stores origin content in raws properties. As such, if you don’t change a declaration’s value, PostCSS will use the raw content with comments.
Each message should have type and plugin properties.

```javascript
{Message[]} - Contains messages from plugins (e.g., warnings or custom messages).
```

Incompatible with postcss-bad;
for debug purpose, you should always use { @link LazyResult#then }.

**n * @type {Promise}**

* @see Result#css

* @return {css} { @link stringify() .css } * @return {

* An alias for the 'css' property. Use it with syntaxes

* that generate non-CSS output.

* This property will only work with synchronous plugins.

* If the processor contains any asynchronous plugins

* it will throw an error. This is why this method is only

* for debug purpose, you should always use { @link LazyResult#then }.

* @type {string}

* @see Result#content

* @return {content} { @link stringify() .content } * @return {

* Processes input CSS through synchronous plugins

* and returns { @link Result#map }.

* This property will only work with synchronous plugins.

* If the processor contains any asynchronous plugins

* it will throw an error. This is why this method is only

* for debug purpose, you should always use { @link LazyResult#then }.

* @type {SourceMapGenerator}

* @see Result#map

* @return {map} { @link stringify() .map } * @return {

* Processes input CSS through synchronous plugins

* and calls { @link Result#warnings }.

* @return {Warning} * @return {Warning} warnings from plugins

* @return this.sync().warnings();

* @type {void} Alias for the { @link LazyResult#css } property.

* @example

* lazy + " == lazy.css

* @return {string} * @return {string} output CSS

* @tostring() { @link stringify() .tostring } * @return {

* Processes input CSS through synchronous and asynchronous plugins

* and calls 'onFulfilled' with a Result instance. If a plugin throws

* an error, the 'onRejected' callback will be executed.

* @example

* It implements standard Promise API.

* @param {onFulfilled} * @param {onFulfilled} onFulfilled - callback will be executed on

* when all plugins will finish work.

* @param {onRejected} * @param {onRejected} onRejected - callback will be executed on any

* error.

* @return {Promise} Promise API to make queue

* @example

* postcss([cssnext]).process(css).then(result => {

* console.log(result.css); * @ example

* });

* then(onFulfilled, onRejected) { @return {async}.then(onFulfilled, onRejected)();

* @return this.async().then(onFulfilled, onRejected);}

* @return this.sync().then(onFulfilled, onRejected);}

* Processes input CSS through synchronous and asynchronous plugins

* and calls onRejected for each error thrown in any plugin.

* @example

* lazy + " == lazy.css

* @return {string} pluginName = plugin.postcssPlugin;

* error.setMessage();

* else if (plugin.postcssVersion) {

* const pluginName = plugin.postcssPlugin;

* const constVer = plugin.postcssVersion.

* const runtimeVer = this.result.processor.version;

* const a = pluginVer.split('.');

* const b = runtimeVer.split('.');

* if (a[0] !== b[0] || parseInt(a[1]) > parseInt(b[1])) { @warnOnce

* S('Your current PostCSS version ' + 'is ' + runtimeVer, but $pluginName ' + 'uses

* $pluginVer. Perhaps this is ' + 'the source of the error below.

* };

* if (console & console.error) console.error(error);}

* asyncTick(resolve, reject) { @link this.asyncTick(resolve, reject);}

* if (this.plugin >= this.processor.plugins.length) {

* this.processed = true; * @link return resolve();

* try { @link try {

* const plugin = this.processor.plugins[this.plugin];

* const promise = this.run(plugin);

* this.plugin += 1;

* if (isPromise(promise)) {

* promise.then() => {

* this.asyncTick(resolve, reject);}

* .catch(error => {

* this.handleError(error, plugin);

* if (this.processed) {

* return new Promise(resolve, reject) => { @link

*
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---

```javascript
// plugins - PostCSS
   *        plugins. See `{@link Processor#use}` for plugin format.
   */

```

```javascript
constructor(plugins = [])
```
Node string as it was in the origin input. 

Every parser saves its own properties, but the default

```javascript
/**
 * @memberof Root#
 * @member {object} raws - Information to generate byte-to-byte equal
 */
```

warnOnce('Root#prevMap is deprecated. Use Root#source.input.map');

```javascript
return this.source.input.map;
```

```javascript
}

prevMap() {

```

```javascript
warnOnce('Root#remove is deprecated. Use Root#removeChild');

```javascript
this.removeChild(child);
```

```javascript
}

root1.toResult({ to: 'all.css', map: true });
```

```javascript
*/
```

```javascript
toResult(opts = {}) {

```

```javascript
const lazy = new LazyResult(new
```

```javascript
}
```

```javascript
from that instance into this one.

```javascript
PostCSS plugin can be in 4 formats:

A plugin created by `{@link postcss.plugin} method.

PostCSS will pass the function a `{@link Root} instance as the first argument and current `{@link Result} instance as the second.

An object with a `postcss` method. PostCSS will use that method as described in #2.

Another `{@link Processor} instance. PostCSS will copy plugins from that instance into this one.

`PostCSS plugins can also be added by passing them as arguments when creating a `postcss` instance (see `[postcss(plugins)]`).

Asynchronous plugins should return a `Promise` instance.

@memberof {Plugin|PluginFunction|Processor} plugin - PostCSS plugin

or `{@link Processor} instance with plugins:

```javascript
* @memberof
* const processor = postcss(()
```

```javascript
/`
```

```javascript
* .use(autoprefixer) * .use(precss)) * @return (Processes) current processor to make methods chainable
```

```javascript
* @use(plugin) ({ this.plugins = this.plugins.concat(this.normalize([plugin]));
```

```javascript
*/
```

```javascript
Parses source CSS and returns a `{@link LazyResult} Promise proxy.

Because some plugins can be asynchronous it doesn’t make any transformations. Transformations will be applied on in the `{@link LazyResult} methods.

```javascript
* @memberof
* @param {string} css - CSS
```

```javascript
* @memberof
* @param {Result} result with current root’s CSS
```

```javascript
* @memberof
* @param {object} raws - Information to generate byte-to-byte equal
```

```javascript
node string as it was in the origin input.

Every parser saves its own properties, but the default
const isTag = (target) => target.tagName.toLowerCase() === target.tagName;

const generateDisplayName = (target) => target.tagName.toLowerCase() === target.tagName ? `styled.${target}` : `Styled(${getComponentName(target)})`;

const ThemeProvider = (props) => {
  const themeContext = useMemo(() => mergeTheme(props.theme, useContext(ThemeContext)), [props.theme, useContext(ThemeContext)]);

  if (!props.children) {
    return null;
  }

  return <ThemeContext.Provider value={themeContext}>{props.children}</ThemeContext.Provider>;
}

const ThemeConsumer = ThemeContext.Consumer;

const mergeTheme = (theme, outerTheme) => {
  if (!theme) {
    return throwStyledError(14);
  }

  if (isFunction(theme)) {
    const mergedTheme = theme(outerTheme);

    if (process.env.NODE_ENV !== 'production' && (mergedTheme === null || Array.isArray(mergedTheme) || typeof mergedTheme !== 'object')) {
      return throwStyledError(7);
    }

    return mergedTheme;
  }

  if (Array.isArray(theme) || typeof theme !== 'object') {
    return throwStyledError(8);
  }

  return outerTheme ? { ...outerTheme, ...theme } : theme;
}

const ThemeConsumer = ThemeContext.Consumer;

const generateDisplayName = (target) => target.tagName.toLowerCase() === target.tagName ? `styled.${target}` : `Styled(${getComponentName(target)})`;

const ThemeProvider = (props) => {
  const themeContext = useMemo(() => mergeTheme(props.theme, useContext(ThemeContext)), [props.theme, useContext(ThemeContext)]);

  if (!props.children) {
    return null;
  }

  return <ThemeContext.Provider value={themeContext}>{props.children}</ThemeContext.Provider>;
}

const ThemeConsumer = ThemeContext.Consumer;

const mergeTheme = (theme, outerTheme) => {
  if (!theme) {
    return throwStyledError(14);
  }

  if (isFunction(theme)) {
    const mergedTheme = theme(outerTheme);

    if (process.env.NODE_ENV !== 'production' && (mergedTheme === null || Array.isArray(mergedTheme) || typeof mergedTheme !== 'object')) {
      return throwStyledError(7);
    }

    return mergedTheme;
  }

  if (Array.isArray(theme) || typeof theme !== 'object') {
    return throwStyledError(8);
  }

  return outerTheme ? { ...outerTheme, ...theme } : theme;
}
filtered tags through to native elements
propsForElement[key] = computedProps[key];
}

if (generatedStyles.concat(style(state)))
) 
  : [generatedStyles].concat(style);

propsForElement.testID = testID;
if (forwardedRef) propsForElement.ref = forwardedRef;
if (forwardedAs) propsForElement.as = forwardedAs;

return createElement(elementToBeRendered, propsForElement);

<ThemeConsumer>
  buildExecutionContext({theme: Object, props: Object, attrs: Attrs}) {
    const context = { ...props, theme };

    if (!attrs.length) return context;

    this.attrs = {};
    attrs.forEach(attrDef => {
      let resolvedAttrDef = attrDef;
      const key = Object.keys(attrDef)
        .filter(Boolean)
        .join(' '); //eslint-disable-next-line guard-for-in

      let resolvedAttr = resolvedAttrDef[key];
      context[key] = resolvedAttr;
    });

    return context;
  }

  generateAndInjectStyles(theme: any, props: any) {
    const { inlineStyle } = props.forwardedComponent;

    const executionContext = this.buildExecutionContext(
      theme,
      props,
      props.forwardedComponent.attrs
    );

    return inlineStyle.generateStyleObject(executionContext);
  }

  setNativeProps(nativeProps: Object) {
    if (this.root !== undefined) {
      this.root.setNativeProps(nativeProps);
    } else if (process.env.NODE_ENV !== 'production') {
      console.warn('setNativeProps was called on a Styled Component wrapping a stateless functional component.');
    }
  }
}

export default (InlineStyle: Function) => {
  const createStyledNativeComponent = (target: Target, options: Object, rules: RuleSet) => {
    const {
      attrs = EMPTY_ARRAY,
      displayName = generateDisplayName(target),
      ParentComponent = StyledNativeComponent,
    } = options;

    const isClass = !isTag(target);
    const isTargetStyledComp = isStyledComponent(target);

    // $FlowFixMe
    const WrappedStyledNativeComponent = React.forwardRef((props, ref) => (
      <ParentComponent
        {...props}
        forwardedComponent={WrappedStyledNativeComponent}
        forwardedRef={ref}
      />
    ));

    const finalAttrs =
      // $FlowFixMe
      isTargetStyledComp && target.attrs
        ? Array.prototype.concat(target.attrs, attrs).filter(Boolean)
        : attrs;

    // $FlowFixMe
    WrappedStyledNativeComponent.attrs = finalAttrs;

    WrappedStyledNativeComponent.displayName = displayName;

    WrappedStyledNativeComponent.shouldForwardProp = shouldForwardProp => {
      if (shouldForwardProp(prop, filterFn, elementToBeCreated)) =>
        $FlowFixMe
        WrappedStyledNativeComponent.shouldForwardProp = target.shouldForwardProp;
    };

    WrappedStyledNativeComponent.inlineStyle = new InlineStyle(
      // $FlowFixMe
      isTargetStyledComp
        ? target.inlineStyle.rules.concat(rules)
        : rules
    );

    WrappedStyledNativeComponent.id = 'StyledNativeComponent';

    WrappedStyledNativeComponent.target = isTargetStyledComp
      ? // $FlowFixMe
        target
      : target;

    WrappedStyledNativeComponent.withComponent = function withComponent(tag: Target) {
      return createElement(tag, new OptionsOptions());
    };

    WrappedStyledNativeComponent.toBeRendered = function toBeRendered(elementToBeRendered) {
      return createElement(elementToBeRendered);
    };

    WrappedStyledNativeComponent.defaultProps = options.defaultProps;

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    WrappedStyle
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5877
Found in path(s):
* /opt/cola/permissions/1341833602_1654812146.0913105/0/styled-components-5-3-3-3-tgz/package/native/dist/styled-components.native.cjs.js.map

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

A stylis plugin has been supplied that is not named. We need a name for each plugin to be able to prevent styling collisions between different stylis configurations within the same app. Before you pass your plugin to `&lt;ThemeProvider stylisPlugins={[]}&gt;`, please make sure each plugin is uniquely-named, e.g.\n\n```js\nimport importedPlugin from 'your-plugin';\nObject.defineProperty(importedPlugin, 'name', { value: 'some-unique-name' });\n```\n
Create an error file out of errors.md for development and a simple web link to the full errors in production mode.

```js
throwStyledComponentsError(code, ...interpolations) {
  if (process.env.NODE_ENV !== 'production') {
    throw new Error(`An error occurred. See https://git.io/JUIaE#${code} for more information.
    Args: ${interpolations.length > 0 ? ` Args: ${interpolations}` : ''}`);
  } else {
    throw new Error(format(ERRORS[code], ...interpolations).trim());
  }
}
```
=> {\n  return reverseRegister.get(group);\n}\n\nexport const setGroupForId = (id: string, group: number) => {\n  if (group >= nextFreeGroup) {\n    nextFreeGroup = group + 1;\n  }\n  groupIDRegister.set(id, group);\n  reverseRegister.set(group, id);\n};\n
/* @flow */\n\nimport { SPLITTER, SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from '../constants';\nimport { getIdForGroup, setGroupForId } from './GroupIDAllocator';\nimport type { Sheet } from './types';\n
const SELECTOR = `style[\${SC_ATTR}][\${SC_ATTR_VERSION}]='${SC_VERSION}'];\n\nconst MARKER_RE = new RegExp(`^${SC_ATTR}.g(\\d+)\[id="([\\w\\d-]+)"\\].*?"([^"]*)`);\n\nexport const outputSheet = (sheet: Sheet) => {\n  const tag = sheet.getTag();\n  const { length } = tag;\n
  let css = '';\n  for (let group = 0; group < length; group++) {\n    const id = getIdForGroup(group);\n    if (id === undefined) continue;\n
    const names = sheet.names.get(id);\n    const rules = tag.getGroup(group);\n    if (!names || !rules || !names.size) continue;\n
    const selector = `${SC_ATTR}.g${group}[id="${id}"]`;\n
    let content = '';\n    if (names !== undefined) {\n      names.forEach(name => {\n        if (name.length > 0) {\n          content += `${name},`;\n        }\n      });\n    }\n
    // NOTE: It's easier to collect rules and have the marker\n    // after the actual rules to simplify the\n    rehydration\n    css += `$[rules][${selector}][content='"${content}"']${SPLITTER}`;\n  }\n
  return css;\n};\n
const rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {\n  const names = content.split(',');\n  let name;\n
  for (let i = 0, l = names.length; i < l; i++) {\n    // eslint-disable-next-line\n    if ((name = names[i])) {\n      sheet.registerName(id, name);\n    }\n  }\n
  return undefined;\n};\n
const rehydrateSheetFromTag = (sheet: Sheet, style: HTMLStyleElement) => {\n  const parts = (style.textContent || '').split(SPLITTER);\n  const rules: string[] = [];\n
  for (let i = 0, l = parts.length; i < l; i++) {\n    const part = parts[i].trim();\n    if (!part) continue;\n
    const marker = part.match(MARKER_RE);\n
    if (marker) {\n      const group = parseInt(marker[1], 10) | 0;\n      const id = marker[2];\n
      if (group !== 0) {\n        // Rehydrate componentId to group index mapping\n        setGroupForId(id, group);\n        // Rehydrate names and rules\n        // looks like: data-\n        styled.g11[\${id}]{content:"nameA,"}\n        rehydrateNamesFromContent(sheet, id, marker[3]);\n      }\n      rules.length = 0;\n    } else {\n      rules.push(part);\n    }\n  }\n
  return undefined;\n};\n
export const rehydrateSheet = (sheet: Sheet) => {\n  const nodes = document.querySelectorAll(SELECTOR);\n
  for (let i = 0, l = nodes.length; i < l; i++) {\n    const node = (nodes[i]: any): HTMLStyleElement;\n    if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE) {\n      rehydrateSheetFromTag(sheet, node);\n      if (node.parentNode) {\n        node.parentNode.removeChild(node);\n      }\n    }\n  }\n
  return undefined;\n};\n
const getNonce = () => {

  return typeof window !== 'undefined'
    ? typeof window.__webpack_nonce__ !== 'undefined'
      ? window.__webpack_nonce__
    : null
  : null
};\n
export default getNonce;\n
import { SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from '../constants';\nimport getNonce from '../utils/nonce';\nimport throwStyledError from '../utils/error';\n
const ELEMENT_TYPE = 1; /* Node.ELEMENT_TYPE */\n
/** Find last style element if any inside target */\nconst findLastStyleTag = (target: HTMLElement): void | HTMLStyleElement => {\n  const { childNodes } = target;\n
  for (let i = childNodes.length; i >= 0; i--) {\n    const child = ((childNodes[i]: any): ?HTMLElement);\n    if (child && child.nodeType === ELEMENT_TYPE && child.hasAttribute(SC_ATTR)) {\n      return (child: any): HTMLStyleElement;\n    }\n  }\n
  return undefined;\n};\n
/** Create a style element inside `target` or <head> after the last */\nexport const makeStyleTag = (target?: HTMLElement): HTMLStyleElement => {\n  const head = (document.head: any): HTMLElement;\n  const parent = target || head;\n  const style = document.createElement('style');\n  const prevStyle = findLastStyleTag(parent);\n  const nextSibling = prevStyle.nextSibling;\n
  style.setAttribute(SC_ATTR, SC_ATTR_ACTIVE);\n  style.setAttribute(SC_ATTR_VERSION, SC_VERSION);\n
  if (nextSibling) {\n    prevStyle.parentNode.insertBefore(style, nextSibling);\n  } else {\n    parent.insertBefore(style, head);\n  }\n
  const nonce = getNonce();\n
  style.setAttribute('nonce', nonce);\n  node.parentNode.removeChild(node);\n}

/** Get the CSSStyleSheet instance for a given style element */\nexport const getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {\n  if (tag.sheet) {\n    return (tag.sheet: any): CSSStyleSheet;\n  }\n
  // Avoid Firefox quirk where the style element might not have a sheet\n  property\n  const [ styleSheets ] = document.styleSheets;\n  return undefined;\n};
(withNames && this.names) || undefined

allocateGSInstance(id: string) {
  return (this.gs[id] = (this.gs[id] || 0) + 1);
}

/** Lazily initialises a GroupedTag for when it's actually needed */
getTag(): GroupedTag {
  return (this.tag || makeGroupedTag(makeTag(this.options)));
}

/** Check whether a name is known for caching */
hasNameForId(id: string, name: string): boolean {
  return this.names.has(id) && (this.names.get(id): any).has(name);
}

/** Insert new rules which also marks the name as known */
insertRules(id: string, name: string, rules: string[]): void {
  this.registerName(id, name);
  this.getTag().insertRules(getGroupForId(id), rules);
}

/** Clears all cached names for a given group ID */
clearNames(id: string): void {
  if (this.names.has(id)) {
    (this.names.get(id): any).clear();
  }
}

/** Clears all rules for a given group ID */
clearRules(id: string): void {
  this.getTag().clearGroup(getGroupForId(id));
  this.clearNames(id);
}

/** Clears the entire tag which deletes all rules but not its names */
clearTag(): void {
  this.tag = undefined;
}

toString(): string {
  return outputSheet(this);
}

export default function(insertRule) {
  const delimiter = '/*|*/';
  const needle = `${delimiter}}`;

  function toSheet(block) {
    if (block) {
      try {
        insertRule(`${block}}`);
      } catch (e) {}
    }
  }

  return function ruleSheet(
    context,
    content,
    selectors,
    parents,
    line,
    column,
    length,
    ns,
    depth,
    at
  ) {
    switch (context) {
      // property
      case 1:
        // @import
        if (depth === 0 && content.charCodeAt(0) === 64) return insertRule(`${content};`), '';
        break;
      // selector
      case 2:
        if (ns === 0) return content + delimiter;
        break;
      // at-rule
      case 3:
        switch (ns) {
          // @font-face, @page
          case 102:
          case 112:
            return insertRule(selectors[0] + content), '';
          default:
            return content + (at === 0 ? delimiter : '');
        }
      case -2:
        content.split(needle).forEach(toSheet);
    }
  };
}

import Stylis from '@emotion/stylis';
import { type Stringifier } from '../types';
import { EMPTY_ARRAY, EMPTY_OBJECT } from './empties';
import throwStyledError from './error';
import { phash, SEED } from './hash';
import insertRulePlugin from './stylisPluginInsertRule';

const COMMENT_REGEX = /^\s*/[\s]*$/gm;
const COMPLEX_SELECTOR_PREFIX = [':', '[', '.', '#'];

type StylisInstanceConstructorArgs = {
  options?: Object,
  plugins?: Array<Function>,
};

export default function createStylisInstance({
  options = EMPTY_OBJECT,
  plugins = EMPTY_ARRAY,
}: StylisInstanceConstructorArgs = EMPTY_OBJECT) {
  const stylis = new Stylis(options);

  // Wrap `insertRulePlugin to build a list of rules,
  // and then make our own plugin to return the rules. This
  // makes it easier to hook into the existing SSR
  // architecture
  let parsedRules = [];
  context => {
    const parsedRules = insertRulePlugin(rule => {
      parsedRules.push(rule);
    });
    return parsedRules;
  };
  let componentId: string;
  let selector: string;
  let selectorRegexp: RegExp;

  return function ruleSheet(
    context,
    content,
    selectors,
    parents,
    line,
    column,
    length,
    ns,
    depth,
    at
  ) {
    switch (context) {
      // property
      case 1:
        // @import
        if (depth === 0 && content.charCodeAt(0) === 64) return insertRule(`${content};`), '';
        break;
      // selector
      case 2:
        if (ns === 0) return content + delimiter;
        break;
      // at-rule
      case 3:
        switch (ns) {
          // @font-face, @page
          case 102:
          case 112:
            return insertRule(selectors[0] + content), '';
          default:
            return content + (at === 0 ? delimiter : '');
        }
      case -2:
        content.split(needle).forEach(toSheet);
    }
  };
}
const selfReferenceReplacer = (match, offset, string) => {
  if (match && string.indexOf(match) === 0) {
    return `.${_componentId}`;
  }

  return match;
};

/**
 * When writing a style like
 * & + & {
 *   color: red;
 * }
 * The second ampersand should be a reference to the static component
class. stylis
 * has no knowledge of static class so we have to intelligently replace the base selector.
 * https://github.com/thysultan/stylis.js/tree/v3.5.4#plugins <- more info about the context phase values
 */
const selfReferenceReplacementPlugin = (context, selector, selectors) => {
  if (context === 2 && selectors.length && selectors[0].lastIndexOf(selector) > 0) {
    selectors[0] = selectors[0].replace(selectorRegexp, selfReferenceReplacer);
  }
};

stylis.use([...plugins, selfReferenceReplacementPlugin, parseRulesPlugin, returnRulesPlugin]);

function stringifyRules(css, selector, prefix, componentId = '&') {
  const flatCSS = css.replace(COMMENT_REGEX, '');
  const cssStr = selector && prefix ? `${prefix} ${selector} { ${flatCSS} }` : flatCSS;

  _componentId = componentId;
  _selector = selector;
  _selectorRegexp = new RegExp(`\\${_selector}\\b`, 'g');
  _consecutiveSelfRefRegExp = new RegExp(`(\\${_selector}\\b){2,}`);

  return stylis(prefix || !selector ? '' : selector, cssStr);
}

stringifyRules.hash = plugins.length
  ? plugins.reduce((acc, plugin) => {
      if (!plugin.name) {
        throwStyledError(15);
      }

      return phash(acc, plugin.name);
    }, SEED)
  .toString()
: '';
```javascript
/**
 * @member {string} - Source code of the broken file.
 *
 * @example
 * error.source
 */

if (file) {
    /**
     * @member {string} - Absolute path to the broken file.
     *
     * @example
     *
     * @example
     * error.message //=> 'Unclosed block'
     */
    this.reason = message;

    error //=> CssSyntaxError
    this.name = 'CssSyntaxError';
    /**
     * @member {string} - Error could have several PostCSS versions.
     *
     * @example
     * if ( error.name === 'CssSyntaxError' ) {
     *
     *                    `error instanceof CssSyntaxError`, because
     *                    npm `error` instead of
     *                    `error instanceof CssSyntaxError`. You should
     *                    always check error type
     *                    by `error.name ===
     */
    
    const tokens = tokenize(new Input(css), { ignoreErrors: true });
    const result = [];
    tokens.forEach(token => {
        const code = css.slice(pos, next + 1);
        default: if (code === SLASH &
            css.charCodeAt(pos + 1) === ASTERISK) {
            next = css.indexOf('*/', pos + 2) + 1;
            if (next === 0) {
                if (ignore) {
                    next = css.length;
                } else {
                    unclosed('comment');
                }
            }
        }

        // @flow
        import tokenize from './tokenize';
        import Input from './input';

        const HIGHLIGHT_THEME = {
            brackets: [36, 39], // cyan
            string: [31, 39], // red
            'at-word': [31, 39], // red comment: [90, 39], // gray
            '(': [32, 39], // green
            ')': [32, 39], // green
            '{': [1, 22], // bold
            '}': [1, 22], // bold
            ':': [1, 22], // bold
            ';': [1, 22], // bold
            'function code(color) {
                const tokens = tokenize(new Input(css), {
                    ignoreErrors: true
                });
                return tokens.forEach(token => {
                    const code = css.slice(pos, next + 1);
                    default: if (code === SLASH &
                        css.charCodeAt(pos + 1) === ASTERISK) {
                        next = css.indexOf('*/', pos + 2) + 1;
                        if (next === 0) {
                            if (ignore) {
                                next = css.length;
                            } else {
                                unclosed('comment');
                            }
                        }
                    }

                    const tokens = tokenize(new Input(css), {
                        ignoreErrors: true
                    });
                    return tokens.forEach(token => {
                        const code = css.slice(pos, next + 1);
                        default: if (code === SLASH &
                            css.charCodeAt(pos + 1) === ASTERISK) {
                            next = css.indexOf('*/', pos + 2) + 1;
                            if (next === 0) {
                                if (ignore) {
                                    next = css.length;
                                } else {
                                    unclosed('comment');
                                }
                            }
                        }
                    }
```
* @param {tokenizer} tokenizer - tokenizer of the node
* @return {string} node string

* Returns a CSS string representing the node.
* @param {tokenizer} tokenizer - tokenizer of the node
* @return {string} CSS string of this node

* Returns a clone of the node.
* * @param {tokenizer} tokenizer - tokenizer of the node
* @return {Node} node clone

* Moves the current node to methods chain
* * @param {Node} parent - new parent
* @return Node

* Inserts node(s) into the resulting cloned node after the current node.
* * @param {Node} node - node to replace
* @return Node

* Remove the node from its current parent and inserts it into the resulting cloned node after the current node.
* * @param {Node} otherNode - after otherNode
* @return Node

* Returns the next child of the node's parent.
* * @return {Node} node current node to methods chain
* * Returns `undefined` if the current node is the last child.
* * Returns `undefined` if the current node is the first child.
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* * Returns `undefined` if the current node is the first child.
const value = this[name];\n\n
if (value instanceof Array) {\n
fixed[name] = value.map(i => {\n
if
(typeof i === 'object' && i.toJSON) {\n
return i.toJSON();\n
} else {\n
return i;\n
}\n
});\n
} else if (typeof value === 'object' && value.toJSON) {\n
fixed[name] = value.toJSON();\n
} else
{\n
fixed[name] = value;\n
}\n }\n\n return fixed;\n }\n\n /**\n * Returns a {@link Node#raws} value.
If the node is missing\n * the code style property (because the node was manually built or cloned),\n * PostCSS
will try to autodetect the code style property by looking\n * at other nodes in the tree.\n *\n * @param {string}
prop
- name of code style property\n * @param {string} [defaultType] - name of default value, it can be
missed\n *
if the value is the same as prop\n *\n * @example\n * const root =
postcss.parse('a { background: white }');\n * root.nodes[0].append({ prop: 'color', value: 'black' });\n *
root.nodes[0].nodes[1].raws.before //=> undefined\n * root.nodes[0].nodes[1].raw('before') //=> ' '\n *\n *
@return {string} code style value\n */\n raw(prop, defaultType) {\n const str = new Stringifier();\n return
str.raw(this, prop, defaultType);\n }\n\n /**\n * Finds the Root instance of the node’s tree.\n *\n * @example\n
* root.nodes[0].nodes[0].root() === root\n *\n * @return {Root} root parent\n */\n root() {\n let result =
this;\n while (result.parent) result = result.parent;\n return result;\n }\n\n cleanRaws(keepBetween) {\n delete
this.raws.before;\n delete this.raws.after;\n if (!keepBetween) delete this.raws.between;\n }\n\n
positionInside(index) {\n const string = this.toString();\n let column = this.source.start.column;\n let line =
this.source.start.line;\n\n for (let i = 0; i < index; i++) {\n
if (string[i] === '\\n') {\n
column = 1;\n
line
+= 1;\n
} else {\n
column += 1;\n
}\n }\n\n return { line, column };\n }\n\n positionBy(opts) {\n let
pos = this.source.start;\n if (opts.index) {\n
pos = this.positionInside(opts.index);\n } else if (opts.word) {\n
const index = this.toString().indexOf(opts.word);\n
if (index !== -1) pos = this.positionInside(index);\n }\n
return pos;\n }\n\n removeSelf() {\n warnOnce('Node#removeSelf is deprecated. Use Node#remove.');\n return
this.remove();\n }\n\n replace(nodes) {\n warnOnce('Node#replace is deprecated. Use Node#replaceWith');\n
return this.replaceWith(nodes);\n }\n\n style(own, detect) {\n warnOnce('Node#style() is deprecated. Use
Node#raw()');\n return this.raw(own, detect);\n }\n\n cleanStyles(keepBetween) {\n
warnOnce('Node#cleanStyles() is deprecated. Use Node#cleanRaws()');\n return this.cleanRaws(keepBetween);\n
}\n\n get before() {\n warnOnce('Node#before is deprecated. Use Node#raws.before');\n return
this.raws.before;\n }\n\n set before(val) {\n warnOnce('Node#before is deprecated. Use Node#raws.before');\n
this.raws.before = val;\n }\n\n get between() {\n warnOnce('Node#between is deprecated. Use
Node#raws.between');\n return this.raws.between;\n }\n\n set between(val) {\n warnOnce('Node#between is
deprecated. Use Node#raws.between');\n this.raws.between = val;\n }\n\n /**\n * @memberof Node#\n *
@member {string} type - String representing the node’s type.\n *
Possible values are `root`,
`atrule`, `rule`,\n *
`decl`, or `comment`.\n *\n * @example\n * postcss.decl({ prop: 'color',
value: 'black' }).type //=> 'decl'\n */\n\n /**\n * @memberof Node#\n * @member {Container} parent - the
node’s parent node.\n *\n * @example\n * root.nodes[0].parent == root;\n */\n\n /**\n * @memberof
Node#\n * @member {source} source - the input source of the node\n *\n * The property is used in source map
generation.\n *\n * If you create a node manually (e.g., with `postcss.decl()`),\n * that node will not have a
`source` property and will be absent\n * from the source map. For this reason, the plugin developer should\n *
consider cloning nodes to create new ones (in which case the new node’s\n * source will reference the original,
cloned node) or setting\n * the `source` property manually.\n *\n * ```js\n * // Bad\n * const prefixed =
postcss.decl({\n * prop: '-moz-' + decl.prop,\n * value: decl.value\n * });\n *\n * // Good\n * const prefixed
= decl.clone({ prop: '-moz-' + decl.prop });\n * ```\n *\n * ```js\n * if ( atrule.name == 'add-link' ) {\n * const
rule = postcss.rule({ selector: 'a', source: atrule.source });\n * atrule.parent.insertBefore(atrule, rule);\n * }\n *
```\n *\n * @example\n * decl.source.input.from //=> '/home/ai/a.sass'\n * decl.source.start
//=> { line: 10,
column: 2 }\n * decl.source.end
//=> { line: 10, column: 12 }\n */\n\n /**\n * @memberof Node#\n *
@member {object} raws - Information to generate byte-to-byte equal\n *
node string as it was in the
origin input.\n *\n * Every parser saves its own properties,\n * but the default CSS parser uses:\n *\n * *
`before`: the space symbols before the node. It also stores `*`\n * and `_` symbols before the declaration (IE
hack).\n * * `after`: the space symbols after the last child of the node\n * to the end of the node.\n * *

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`between`: the symbols between the property and value

* for declarations, selector and `{` for rules, or last parameter

* and `}` for at-rules.

* ** `semicolon`: contains true if the last child has an (optional)

semicolon.

* ** `afterName`: the space between the at-rule name and its parameters.

* ** `left`: the space symbols between `/*` and the comment’s text.

* ** `right`: the space symbols between the comment’s text

* and `<code>`&`#7;</code>.

* ** `important`: the content of the important statement.

* if it is not just `!important`.

* PostCSS cleans selectors, declaration values and at-rule parameters

* from comments and extra spaces, but it stores origin content in raws

* properties. As such, if you don’t change a declaration’s value,

* PostCSS will use the raw value with comments.

* * @example

* const root = postcss.parse(`

  a {
    color: black !important;
  }

`) // `color: black` *\n*

* stylesheet.

* * `semicolon`: contains true if the last child has an (optional)

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null
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```javascript
// rule
* rule.append({ prop: 'color', value: 'black' });
* rule.append({ text: 'Comment' });

* @example
* const decl1 = postcss.decl({ prop: 'color', value: 'black' });
* const decl2 = postcss.decl({ prop: 'background-color', value: 'white' });
* rule.prepend(decl1, decl2);

* @return {Node} this node for methods

* @param {...(Node|object|string|Node[])} children
* @return {false|undefined} returns `false` if iteration was broke
* * @example
* root.walkAtRules(rule => {
*   if (first) {
*     first = false;
*     return callback(child, i);
*   } else {
*     callback(child, i);
*   }
* });

* @param {string|RegExp} [selector] - string or regular expression
* * to filter rules by selector
* * @param {childIterator} callback - iterator receives each node and index
* * * @return {false|undefined} returns `false` if iteration was broke
* * * @example
* root.walkAtRules(selector, callback) {
*   if (!callback) {
*     callback = selector;
*   }
*   return this.walk((child, i) => {
*     if (child.type === 'atrule' && selector.test(child.selector)) {
*       return callback(child, i);
*     }
*   });
* }

* @example
* root.walkDecls(prop, callback) {
*   if (!callback) {
*     callback = prop;
*   }
*   return this.walk((child, i) => {
*     if (child.type === 'decl') {
*       return callback(child, i);
*     }
*   });
* }
```

Note: The provided text seems to be a snippet of JavaScript code, possibly intended to be part of a larger program or documentation. It appears to be a function or method in a CSS or PostCSS context, dealing with selectors, rules, and decls. The text is cut off in the middle, and it's difficult to infer the complete functionality without more context. It includes examples and usage scenarios for manipulating CSS rules and declarations.
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```javascript
const noPrefixes = rule.every(i => i.prop[0] !== '-');

/**
 * Checks if condition returns true or false.
 *
 * @return {boolean} is every child pass condition
 *
 * @example
 *
 */

decl.value = decl.value.replace(pattern, callback);

return this;

/**
 * Returns `true` if
 *
 * @param {string|RegExp} pattern      - replace pattern
 * @param {string|string[]} opts.props - an array of property names
 * @param {string} opts.fast
 *
 */

methods chain

this.removeAll();
this.nodes.length

rule.removeChild(child);
this.removeChild(child);

rule.prepend({ prop: 'color', value: 'black' });       // declaration
rule.append({ text: 'Comment' })                      // comment

rule.append({ prop: 'color', value: 'black' });       // declaration
rule.append({ text: 'Comment' })                      // comment

children = children.reverse();
children.forEach(child => {
  const nodes = this.normalize(child, this.nodes[exist], type);
  this.children[child].cleanRaws(keepBetween);
});

this.first, 'prepend').reverse();

nodes.forEach(node => this.nodes.unshift(node));
for (const id in
```

//=> 0
*/

rule.removeAll();
rule.nodes.length

return this;

rule.removeChild(decl);
rule.nodes.length

rule.insertBefore(decl, 'prepend').reverse();
nodes.forEach(node => this.nodes.splice(exist + 1, 0, node));

let index;
for (const id in this.indexes) {
  this.indexes[id] = this.indexes[id] + nodes.length;
}

return this;

rule.removeChild(child);
```
rule’s individual selectors.

* Groups of selectors are split at commas.

---------

const root = postcss.parse(a, b); 

* rule.selectors //=> ['a', 'b']

* rule.selectors = ['a', 'strong']

* rule.selectors //==> 'a, b'

* get

* get

* get

* get

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* get
A `LazyResult` instance is returned by `@link Processor#process`.

```javascript
/**
 * A Promise proxy for the result of PostCSS transformations.
 * @callback onFulfilled
 * @param {Result} result
 */

/**
 * @callback
 * @param {Warning} warn
 * @example
 * result.warnings().forEach(warn => {
 *   console.warn(warn.toString());
 * });
 */

/**
 * Returns warnings from plugins. Filters `@link Result#messages`.
 * @param {string} text - warning message
 * @param {Object} [opts] - warning options
 * @return {Warning[]} warnings from plugins
 */

/**
 * A `LazyResult` instance can be returned by a `Processor#process`
 * method.
 * @param {Object} obj - the object used
 * @example
 * postcss('{{cssnext}}').process(css).then(function (result) {
 *   console.log(result.css);
 * });
 */

var result2 = postcss.parse(css).toResult();
result2.messages.push({
  type: 'min-browser',
  plugin: 'postcss-min-browser',
  browsers: browsers
});

var result2 = postcss.parse(css).toResult();
result2.messages.push({
  type: 'min-browser',
  plugin: 'postcss-min-browser',
  browsers: browsers
});

result2.messages.push({
  type: 'min-browser',
  plugin: 'postcss-min-browser',
  browsers: browsers
});

this.messages = [];

if (this.lastPlugin && this.lastPlugin.postcssPlugin) {
  opts.plugin = this.lastPlugin.postcssPlugin;
}

const warning = new Warning(text, opts);
this.messages.push(warning);

return warning;
```

Each message should have type, plugin properties, and message properties.

```javascript
/**
 * @member {string} - A CSS string representing of `@link Result#root`.
 * @example
 * result.root.css === result.root.css
 * @example
 * result.root + '' === result.css
 */

toString()

/**
 * Returns for `@link Result#css` content.
 * @example
 * postcss.parse('a{}').toResult().css //=> "a{}"
 */

toString()

/**
 * Creates an instance of `Warning` and adds it to `@link Result#messages`.
 * @param {string} text - warning message
 * @param {Object} [opts] - warning options
 * @return {Warning} created warning
 */

warn(text, opts = {})
```

warning options

```javascript
this.messages = [];
this.messages.push({
  type: 'min-browser',
  plugin: 'postcss-min-browser',
  browsers: browsers
});

this.messages = [];
this.messages.push({
  type: 'min-browser',
  plugin: 'postcss-min-browser',
  browsers: browsers
});
```

result.css === result.content;

```javascript
export default Result;
```

result.css === result.content;
css

} else if (css instanceof LazyResult || css instanceof Result) {
  root = css.root;
  if (css.map) {
    opts.map.prev = css.map;
  }
} else if (typeof opts.map === 'undefined')

if (opts.syntax) parser = opts.syntax.parse;
if (opts.parser) parser = opts.parser;
try {
  root = parser(css, opts);
  catch (error) {
    this.error = error;
    return new Result(processor, root, opts);
  }
}

/**
 * Returns a {@link Processor} instance, which will be used
 * for CSS transformations.
 * @type {Processor}
 */
get processor() {
  return this.result.processor;
}

/**
 * Options from the {@link Processor#process} call.
 * @type {processOptions}
 */
get opts() {
  return this.result.opts;
}

/**
 * Processes input CSS through synchronous plugins, converts `Root` to a
 * CSS string and returns a `Result` object. This property will only work with synchronous plugins.
 * If the processor contains any asynchronous plugins it will throw an error. This is why this method is only
 * for debug purpose, you should always use `then`.
 * @type {Root}
 * @see Result#root
 */
get root() {
  return this.sync().root;
}

/**
 * Processes input CSS through synchronous plugins and returns
 * a `Result` object. This property will only work with synchronous plugins.
 * If the processor contains any asynchronous plugins it will throw an error. This is why this method is only
 * for debug purpose, you should always use `then`.
 * @type {Root}
 * @see Result#root
 */
get sync() {
  return this.sync().root;
}

/**
 * Processes input CSS through synchronous plugins and calls
 * `onFulfilled` with a Result instance. If a plugin throws an error, the `onRejected` callback will be executed.
 * It implements standard Promise API.
 * @param {onFulfilled} onFulfilled - callback will be executed
 * when all plugins will finish work
 * @param {onRejected} onRejected - callback will be executed on any error
 * @return {Promise} Promise API to make queue
 */
then(onFulfilled, onRejected) {
  return this.async().then(onFulfilled, onRejected);
}

/**
 * Processes input CSS through synchronous and asynchronous plugins and calls `onFulfilled` with a Result instance.
 * It implements standard Promise API.
 * @param {onFulfilled} onFulfilled - callback will be executed on any error
 * @param {onRejected} onRejected - callback will be executed on any error
 * @return {Promise} Promise API to make queue
 */
catch(onRejected) {
  return this.async().catch(onRejected);
}

handleError(error, plugin) {
  try {
    this.error = error;
    if (error.name === 'CssSyntaxError' &&
      error.plugin) {
      error.plugin = plugin.postcssPlugin;
    } else if (plugin.postcssVersion) {
      const pluginName = plugin.postcssPlugin;
      const pluginVer =
      postcss([plugin.postcssVersion]);
    }
  }
}
PostCSS will try to find the previous map automatically, so you could disable it by

'false' value. 

* @property {boolean} map.sourcesContent - does PostCSS should set

the origin content to map

* @property {string|false} map.annotation - does PostCSS should set

annotation comment to map

* @property {string} map.from - override `from` in map

* @property {string} map.sourcesContent

* @property {string} map.annotation

* @property {string} map.from

PostCSS has plugins to process CSS. Create one `Processor` instance, * initialize its plugins, and then use that instance on numerous CSS files.

* constructor = postcss([autoprefixer, precss]);

* processor.process(css1).then(result => console.log(result.css));

* processor.process(css2).then(result =>

console.log(result.css));

* @class Processor

PostCSS will try to find

* previous map

* does PostCSS should set

the origin content to map

* @property {string} map.annotation

* @property {string} map.from

- override `from` in map

- `sourcesContent`

- `annotation`

Contains plugins to process CSS. Create one `Processor` instance, * initialize its plugins, and then use that instance on numerous CSS files.

* constructor = postcss([autoprefixer, precss]);

* processor.process(css1).then(result => console.log(result.css));

* processor.process(css2).then(result =>

console.log(result.css));

* @class Processor

PostCSS will try to find

* previous map

* does PostCSS should set

the origin content to map

* @property {string} map.annotation

* @property {string} map.from

- override `from` in map

- `sourcesContent`

- `annotation`

- does PostCSS should set

- annotation comment to map

* @property {string} map.from

- override `from` in map

- `sourcesContent`

- `annotation`

- does PostCSS should set

- annotation comment to map

* @property {string} map.annotation

* @property {string} map.from

- override `from` in map

- `sourcesContent`

- `annotation`

- does PostCSS should set

- annotation comment to map

* @property {string} map.annotation

* @property {string} map.from

- override `from` in map

- `sourcesContent`

- `annotation`

- does PostCSS should set

- annotation comment to map

* @property {string} map.annotation

* @property {string} map.from

- override `from` in map

- `sourcesContent`

- `annotation`
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const isObject = val => {
  return (
    typeof val === 'function' || (typeof val === 'object' && val !== null &
    && !Array.isArray(val))
  );
};

const isValidKey = key => {
  return key !== '__proto__' && key !== 'constructor' && key !== 'prototype';
};

function mixin(target, val, key) {
  const obj = target[key];
  if (isObject(val) && isObject(obj)) {
    mixinDeep(obj, val);
  } else {
    target[key] = val;
  }
}

export default function mixinDeep(target, ...rest) {
  for (const obj of rest) {
    if (isObject(obj)) {
      for (const key in obj) {
        if (isValidKey(key)) {
          mixin(target, obj[key], key);
        }
      }
    }
  }

  return target;
}

import { EMPTY_OBJECT } from './empties';

type Props = {
  theme?: any,
};

export default (props: Props, providedTheme: any, defaultProps: any = EMPTY_OBJECT) => {
  return (props.theme !== defaultProps.theme && props.theme) || providedTheme || defaultProps.theme;
};

import type { IStyledComponent } from '../types';
import getComponentName from './getComponentName';
import isTag from './isTag';

export default function generateDisplayName(target: $PropertyType<IStyledComponent, 'target'>): string {
  return isTag(target) ? `styled.${target}` : `Styled(${getComponentName(target)})`;
}

import React, { useContext, useMemo, type Element, type Context } from 'react';
import throwStyledError from '../utils/error';
import isFunction from '../utils/isFunction';
import isTag from '../utils/isTag';
import isStyledComponent from '../utils/isStyledComponent';
import { ThemeConsumer } from './ThemeProvider';

import type { Theme } from './ThemeProvider';
import type { Attrs, RuleSet, Target } from '../types';

// NOTE: no hooks available for react-native yet;
// if the user makes use of ThemeProvider or StyleSheetManager things will break.

const validAttr = () => true;

class StyledNativeComponent extends Component<*, *> {
  root: ?Object;

  attrs = {};

  render() {
    // Flow imports
    if (isTag(this)) {
      const theme = determineTheme(this, ThemeContext.Consumer);
      const themeContext = useMemo(() => mergeTheme(theme, THEME.Consumer), [theme, THEME.Consumer]);
      const themeConsumer = ThemeContext.Consumer;
      const styleSheetManager = StyleSheetManager;
    }

    return this.props.children;
  }
}

{\n return (\n
<ThemeConsumer>\n
{(theme?: Theme) => {\n
const {\n
$as:
transientAsProp,\n
as: renderAs,\n
forwardedComponent,\n
forwardedAs,\n
forwardedRef,\n
testID,\n
style = [],\n
...props\n
} = this.props;\n\n
const {
defaultProps, target, shouldForwardProp } = forwardedComponent;\n
const elementToBeRendered =\n
this.attrs.$as || this.attrs.as || transientAsProp || renderAs || target;\n\n
const generatedStyles =
this.generateAndInjectStyles(\n
determineTheme(this.props, theme, defaultProps) || EMPTY_OBJECT,\n
this.props\n
);\n\n
const isTargetTag = isTag(elementToBeRendered);\n
const computedProps =
this.attrs !== props ? { ...props, ...this.attrs } : props;\n
const propFilterFn = shouldForwardProp || (isTargetTag
&& validAttr);\n
const propsForElement = {};\n
let key;\n\n
for (key in computedProps) {\n
if (key[0] === '$' || key === 'as') continue;\n
else if (key === 'forwardedAs') {\n
propsForElement.as
= props[key];\n
} else if (!propFilterFn || propFilterFn(key, validAttr)) {\n
// Don't pass through
filtered tags through to native elements\n
propsForElement[key] = computedProps[key];\n
}\n
}\n\n
propsForElement.style = typeof style === 'function' ?\n
(state) => {\n
return
[generatedStyles].concat(style(state))\n
}\n
: [generatedStyles].concat(style);\n
propsForElement.testID = testID;\n\n
if (forwardedRef) propsForElement.ref = forwardedRef;\n
if
(forwardedAs) propsForElement.as = forwardedAs;\n\n
return createElement(elementToBeRendered,
propsForElement);\n
}}\n
</ThemeConsumer>\n );\n }\n\n buildExecutionContext(theme: ?Object, props:
Object, attrs: Attrs) {\n const context = { ...props, theme };\n\n if (!attrs.length) return context;\n\n this.attrs =
{};\n\n attrs.forEach(attrDef => {\n
let resolvedAttrDef = attrDef;\n
let attr;\n
let key;\n\n
if
(isFunction(resolvedAttrDef)) {\n
resolvedAttrDef = resolvedAttrDef(context);\n
}\n\n
/* eslint-disable
guard-for-in */\n
for (key in resolvedAttrDef) {\n
attr = resolvedAttrDef[key];\n
this.attrs[key] = attr;\n
context[key] = attr;\n
}\n
/* eslint-enable */\n });\n\n return context;\n }\n\n
generateAndInjectStyles(theme: any, props: any) {\n const { inlineStyle } = props.forwardedComponent;\n\n
const executionContext = this.buildExecutionContext(\n
theme,\n
props,\n
props.forwardedComponent.attrs\n );\n\n return inlineStyle.generateStyleObject(executionContext);\n }\n\n
setNativeProps(nativeProps: Object) {\n if (this.root !== undefined) {\n
// $FlowFixMe\n
this.root.setNativeProps(nativeProps);\n } else if (process.env.NODE_ENV !== 'production') {\n
// eslintdisable-next-line no-console\n
console.warn(\n
'setNativeProps was called on a Styled Component wrapping
a stateless functional component.'\n
);\n }\n }\n}\n\nexport default (InlineStyle: Function) => {\n const
createStyledNativeComponent = (target: Target, options: Object, rules: RuleSet) => {\n const {\n
attrs =
EMPTY_ARRAY,\n
displayName = generateDisplayName(target),\n
ParentComponent =
StyledNativeComponent,\n } = options;\n\n const isClass = !isTag(target);\n const isTargetStyledComp =
isStyledComponent(target);\n\n // $FlowFixMe\n const WrappedStyledNativeComponent =
React.forwardRef((props, ref) => (\n
<ParentComponent\n
{...props}\n
forwardedComponent={WrappedStyledNativeComponent}\n
forwardedRef={ref}\n
/>\n ));\n\n const
finalAttrs =\n
// $FlowFixMe\n
isTargetStyledComp && target.attrs\n
?
Array.prototype.concat(target.attrs, attrs).filter(Boolean)\n
: attrs;\n\n // eslint-disable-next-line preferdestructuring\n let shouldForwardProp = options.shouldForwardProp;\n\n // $FlowFixMe\n if
(isTargetStyledComp && target.shouldForwardProp) {\n
if (shouldForwardProp) {\n
// compose nested
shouldForwardProp calls\n
shouldForwardProp = (prop, filterFn, elementToBeCreated) =>\n
//
$FlowFixMe\n
target.shouldForwardProp(prop, filterFn, elementToBeCreated) &&\n
options.shouldForwardProp(prop, filterFn, elementToBeCreated);\n
} else {\n
// eslint-disable-next-line
prefer-destructuring\n
shouldForwardProp = target.shouldForwardProp;\n
}\n }\n\n /**\n * forwardRef
creates a new interim component, which we'll take advantage of\n * instead of extending ParentComponent to
create _another_ interim class\n */\n\n // $FlowFixMe\n WrappedStyledNativeComponent.attrs =
finalAttrs;\n\n WrappedStyledNativeComponent.displayName = displayName;\n\n // $FlowFixMe\n
WrappedStyledNativeComponent.shouldForwardProp = shouldForwardProp;\n\n // $FlowFixMe\n
WrappedStyledNativeComponent.inlineStyle = new InlineStyle(\n
// $FlowFixMe\n
isTargetStyledComp ?

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target.inlineStyle.rules.concat(rules) : rules

    // $FlowFixMe
    WrappedStyledNativeComponent.target = isTargetStyledComp ? target.target : target;

    // $FlowFixMe
    WrappedStyledNativeComponent.withComponent = function withComponent(tag: Target) {
      const { displayName: _, componentId: __, ...optionsToCopy } = options;
      const newOptions = {
        ...optionsToCopy, attrs: finalAttrs, ParentComponent, 
      };
      return createStyledNativeComponent(tag, newOptions, rules);
    };

    // $FlowFixMe
    Object.defineProperty(WrappedStyledNativeComponent, 'defaultProps', {
      get() {
        return this._foldedDefaultProps;
      },
      set(obj) {
        // $FlowFixMe
        this._foldedDefaultProps = isTargetStyledComp ? merge({}, target.defaultProps, obj) : obj;
      },
    });

    if (isClass) {
      hoist(WrappedStyledNativeComponent, (target: any), {
        // all SC-specific things should not be hoisted
        attrs: true,
        displayName: true,
        shouldForwardProp: true,
        inlineStyle: true,
        styledComponentId: true,
        target: true,
        withComponent: true,
      });
    }

    return WrappedStyledNativeComponent;
  };

  return createStyledNativeComponent;
};

// @flow
import type { Interpolation } from '../types';

export default (strings: Array<string>, interpolations: Array<Interpolation>): Array<Interpolation> => {
  const result = [strings[0]];
  for (let i = 0, len = interpolations.length; i < len; i += 1) {
    result.push(interpolations[i], strings[i + 1]);
  }
  return result;
};

// @flow
import interleave from '../utils/interleave';
import isPlainObject from '../utils/isPlainObject';
import { EMPTY_ARRAY } from '../utils/empties';
import isFunction from '../utils/isFunction';
import flatten from '../utils/flatten';
import type { Interpolation, RuleSet, Styles } from '../types';

/**
 * Used when flattening object styles to determine if we should break an array of styles.
 * @param {Interpolation} arg - Used when flattening object styles to determine if we should break an array of styles.
 * @returns {Interpolation} - returns an object with the same keys as the input object.
 */
const addTag = arg => {
  if (Array.isArray(arg)) {
    // eslint-disable-next-line no-param-reassign
    arg.isCss = true;
  }
  return arg;
};

export default function css(styles: Styles, ...interpolations: Array<Interpolation>): RuleSet {
  if (isFunction(styles) || isPlainObject(styles)) {
    // $FlowFixMe
    return addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));
  }

  if (interpolations.length === 0 && styles.length === 1 && typeof styles[0] === 'string') {
    // $FlowFixMe
    return styles;
  }

  // $FlowFixMe
  return addTag(flatten(interleave(styles, interpolations)));
}

// @flow
import { isValidElementType } from 'react-is';
import css from './css';
import throwStyledError from '../utils/error';
import { EMPTY_OBJECT } from '../utils/empties';

import type { Target } from '../types';

export default function constructWithOptions(
  componentConstructor: Function,
  tag: Target,
  options: Object = EMPTY_OBJECT
) {
  if (!isValidElementType(tag)) {
    return throwStyledError(1, String(tag));
  }

  // This is callable directly as a template function
  // const templateFunction = (...args) => componentConstructor(tag, options, css(...args));

  // If config methods are called, wrap up a new template function and merge options
  // componentConstructor(tag, options, css(...args));

  // Modify/inject new props at runtime
  // componentConstructor(tag, options, css(...args));

  // const { theme } = useContext(ThemeContext);
  // const themeProp = determineTheme(options, theme);

  // This should be React.forwardRef<Config> that supports React.forwardRef(props, ref)
  // const withTheme = React.forwardRef((props, ref) => { react.createElement(theme, props); });

  // if (process.env.NODE_ENV !== 'production') {
  //   // eslint-disable-next-line no-param-reassign
  //   options = { ...options, theme: themeProp, ...);
  // }

  return React.forwardRef((props, ref) => {
    const themeProp = determineTheme(props, theme);
    return componentConstructor(tag, options, css(props, themeProp));
  });
}

// @flow
import React, { useContext, type AbstractComponent } from 'react';
import hoistStatics from 'hoist-non-react-statics';
import { ThemeContext } from '../models/ThemeProvider';
import determineTheme from '../utils/determineTheme';
import getComponentName from '../utils/getComponentName';

export default (Component: AbstractComponent<*, *>) => {
  const WithTheme = React.forwardRef((props, ref) => {
    const theme = useContext(ThemeContext);
    const themeProp = determineTheme(props, theme);
    return componentConstructor(tag, options, css(props, themeProp));
  });

  // This is callable directly as a template function
  // const templateFunction = (...args) => componentConstructor(tag, options, css(...args));

  // Modify/inject new props at runtime
  // templateFunction.attrs = attrs => constructWithOptions(componentConstructor, tag, { ...options, attrs: Array.prototype.concat(options.attrs, attrs).filter(Boolean), ... });

  return WithTheme;
};

// NOTE: this would be the correct signature:
// export default <Config: { theme?: any }, Instance>(
//  Component: AbstractComponent<Config, Instance>:
//  Component<*> => Component<*>;
//)
//
// but the old build system tooling doesn't support the
// syntax

// export default (Component: AbstractComponent<*, *>) => {
//   // $FlowFixMe
//   const Component = AbstractComponent<*, *>;
console
    .warn(`[withTheme] You are not using a ThemeProvider nor passing a theme prop or a ` +
        `theme in defaultProps in component class ` +
        `\`${getComponentName(\n          Component\n        )}\`\`\`)\n    ;\n\n  return ` +
    `\n      ` +
    `_\n  ;\n\n  render(\` +
    `\` +
  ;\n\n  return ` +
    `\` +
  ;\n};

  hoistStatics(WithTheme, ` +
    `\` +
  ;\n
  WithTheme.displayName = ` +
    `\` +
  ;

  return ` +
    `\` +
  ;
};// @flow
import { useContext } from 'react'
import { ThemeContext } from ` +
    `\` +
  ;

const useTheme = () => useContext(ThemeContext)

export default useTheme;

/* eslint-disable import/no-unresolved */
import reactPrimitives from 'react-primitives';

import _InlineStyle from '../models/InlineStyle';
import _StyledNativeComponent from ` +
    `\` +
  ;

import css from '../constructors/css';
import constructWithOptions from ` +
    `\` +
  ;
import ThemeProvider, { ThemeConsumer, ThemeContext } from ` +
    `\` +
  ;
import withTheme from '../hoc/withTheme';
import useTheme from ` +
    `\` +
  ;
import isStyledComponent from '../utils/isStyledComponent';

import type { Target } from ` +
    `\` +
  ;

const InlineStyle = _InlineStyle(reactPrimitives.StyleSheet);
const StyledNativeComponent = _StyledNativeComponent(_InlineStyle);
const styled = (tag: Target) =>
  constructWithOptions(StyledNativeComponent, tag);

/* React native lazy-requires each of these modules for ` +
  some reason, so let's * assume it's for a good reason and not eagerly load them all */

const aliases = 'Image Text ' +
  'Touchable View';

/* Define a getter for each alias which simply gets the reactNative component * ` +
  and passes it to styled */

aliases.split(/\s+/m).forEach(alias =>
  Object.defineProperty(styled, alias, {
    enumerable: true,
    configurable: false,
    get() {
      return styled(reactPrimitives[alias]);
    },
  })
);

export { css,
    isStyledComponent, ThemeProvider, ThemeConsumer, ThemeContext, useTheme };
export default styled;
Open Source Used In Cisco Telemetry Broker On Prem 1.3.1 5937

AlB,CAAhB;AACA,SAAK6G,QAAL,CAAc,c,IAAd,CAAmBkd,OAAnB;AAEA,WAAOA,OAAP;AACC;AAED;:::::::::;SAWAC,WAAA,0BAAW;AECT,WAAO,KAACK,QAAL,CAAcK,MAAD,CAAcqB,UAAlAigB,CAAC;A A,aaAAIA,CAAC,CAACmW,IAAF,KAAW,SAaf;AAA,KAAbB,CAAC;AAED;:::::::::;wBAQc;AACZ, aaAO,KAACKr,GAZA;AAED;::::::;AAlCHK,SAASqB,SAAT,CAAmB1Q,GAAnB,EAAwB;AAAcB,SAAO,0A0A0,G AAA,KAe,CQAI,IAA2B,0AOAA,GAAG,CAAC2Q,IAAX,KAAoB,UAAtD;AAAd;AAED;::::::;AAAA;:::AAK A;::::::;IAQMC;AACA,sBAAYT,SAAZ,EAAnB9a,GAAbV,EEA4BkU,IAAA5B,EAACk,C,AAChC,SAACK,WA LA,GAAmB,KAAhB,AAAhB,GAAIAI,AAJAcB,AAAB;AEA,AQAI,AIAJ;:::AAAc,QAALIAO,A0AOvR,GAA P,KAc,qAAM,IAB2A,GAAG,CAAc5R,IAAJ,KAaA,MAA5C,EAAoD;AAACDC,MAAAA,IAA1,GAAGvR,GA A;AAAcD,KAFD,MAEO,JAAIA,GAAQ,YYAYuB,UAAljA6Bv6B,GAAG,YYAY6a,MAAhD,EAAwD;AAAC7D J,MAAAA,IAAI,GAAAGvR,GAAG,CAACuR,IAAX;:::AAAC,UAAlvR,GAAG,CAACkP,GAAR,EAaA;EACX,YA AL,AAAOAgF,IAAI,CAACHF,GAZA,KAAoB,WAAxB,EAAlqCgF,IAAI,CAACHF,GAAL,GAAW,EAAxGc, YAAL,CAACG,F,IAAI,CAACHF,GAA,CAASuM,MAAd,EAAdBvH,IAAI,CAACHF,GAA,CAASuM,MAAT,G A AkB,KAAhB,AAAcBvH,vQAAlA,IAAI,CAACHF,GAAL,CAASf,IAAT,GAAyR,QAAZ,EAAPE;AACD;AAED;:::::::::;AAKA;::::::;IAQA;::::::;SAMAII,WAaa,0BAAW;AECT,WAAO,KAACK6D,GAAZ;AAACD;AAED;::::::::;S AkBAsb,0AAAI,AaAAM,WAAI,EAAbC,UAAlB,EAAb8B,AAAc5B,WAAO,KAACK,C,KAAL,GAAaR,IAAb,B,CA A kBm,WAAlB,EAa+B,C,UAAb,C,AAAcD;AAED;:::::::::;oBaAE,B,gaBAAlA,UAAlA,EAAbB;AAAcH,B WAAO,KAACK,C,KAAL,YAAmB,D,UAAbN,CAAp;AAcC;SAAED,CAaAAqBAAyV,N,KAAZ,EAAmB1F,MAAn B,EAAb2B,AAAczQ,QAAlF;AAChF,WAAb0F,KAAK,GAAGaA,KAAb;CAAc,UAAlAIA,KAACK,CAAC7T,IAAN,KAA c,eBAAla,IAAIcM,CAAC6T,KAAK,CAAC1F,MAA9C,EAAoD;AAcP0F,QAAA,KAACK,CAACIF,MAAN,GA AeA,AAMA,CAACmS,AAAbB;AACz2M,QAAA,KAACK,C,CAAcE,UAAN;AAcD,OAHG,MAGO,IAAIIG,MAA M,CAACykC,EAxX,EAAb2B,AAChC,YAAMC,UAAlU,GAAGaT,MMAA,CAACmS,aAAAlB;AAACA,UYAAlM,B,SA AS,GAApQF,MMAA,CAACKt,cAAzB,AACCA,YAAAMG,UAAlU,GAAG,KAAAK5Q,MAAI,CAAYnP,SAAZ,CAA sBsB,OAAAzC,AACA,YAAMxe,MCAAC,GAAGsE,SAAS,CAACza,KAAY,CAAGB,GAAbB,C,CAAA,UAAY 5D,CAAC,GAAGsE,UAAlU,CAAC1a,KAAX,CAAIb,B,GAJbB,CAAl;:::AAEA,YAAI7D,CAAC,CAACAD,CA AD,KAAC,CAAC,CAAC,CAAD,CAAV,IAAlBqE,qQAQQ,CAACtE,CAAC,CAAC,CAAD,CAAF,CAAR,GAAl BiE,QAQQ,CAACtE,CAAC,CAAC,CAAD,CAAF,CAAF9C,EAasD;AACpD+n,UAAAIAA,QAQQ,CACQ,MAAG,kKA ACK,KAAC1,IAAl6CuQ,UAAlC,cAAgEF,UAAlE,0BAUC,SAyD,2AD,mCAAR,AaKD;AAcF;AAcC,KA PBd,CAoBE,OAOG,GAAP,EAAY;AACY,UAAllQ,OAAO,AIAAIA,AIAO,CAAC,c+,KAAbV,EAAb8B/C,OAA O,CAAC+C,KAAC5,CAAC6N,GAAd;AAcC;AAcF;:::SAEDC,YAAA,mBAUAC,0AAV,EAAnBMC,MAAnB,EAA 2B,A AAAn;:::AACz2Q,QAAlI,KAACKT,MAAI,AAC,KAACKgS,SSAAL,CAAc3T9tOf,AACa AbL,MAA1C,EAAkD; AAcHd,WAkSe,SAAI,GAAlB,IAAJb;AACCA,aaAAOMC,0AAO,EAAdD;AAcC;:::AEAD,QAAI;AACF,UAAmZt M,MAAm,GAAG,KAACKgS,SSSA,CAAc3T9,0AAI,CAAbB,KAACK2B,MAA5B,C,CAAC;AAAdm2T,0AAO,GA AG,KAAA,CAAL,CAAlST,MAAT,CAAbB,AAKAA,H,CAAIc,CAAIcE,CAAIcF,AAAI,CAAluS,SSAAS,CA AcOb,AOAD,CAAb,EAAbW;AAcTBA,QAAA,0AAO,CAACInB,IAAD,CAQ,YAAM,YAACV,UAAM,KAAlC,CAA CGb,B,SSAAL,CAAcC,OAAf,EAAbWMC,MAAbB;AAcD,SAHH,WAlS,UAAbH0,KAACK,EAAl;AAdC,UAAdU,A AAkAI,CAACnW,WAAL,CAAIbV,KNABJ,EAAbW1F,MABXb;:::AAAA,UAAA,KAAlC,CAACGq,SAAL,GAAbI,IA AjB,AAAl8C,UAAlA,MAAAM,CAChO,KAAD,C,AAAd;AAcD,SARH;SAA,D,OAVID,MAUO;AAcC;:::AAK8N, SAAl,CAAcC,OAAf,EAAbWMC,MAAbB;AAcD,AAcF,KAAlBD,CAkBE,0AA0H0,KAAP,EAac;AAdC,WAkk L,SAAL,GAAIb,IAAJb;AAAc8C,MAAAA,MAAM,CAChO,KAAD,C,AAcD;AAcF;:::SAAEDN,QAAA,IAAI bAAQ;:::AAACN,QAAlKACKpC,SAAT,EAaOB,AAcIC,AaaaIA,0AAI,CAAY,UAACJ,OAAD,EAA UC,MAAv,EAAlqC;AAACG,YAAlM,MAAICAChO,KAAT,EAAbG;AAACdgO,UAAAA,MAAM,CAAC,MAAI C
SC_ATTR_ACTIVE = 'active';
export const SC_ATTR_VERSION = 'data-styled-version';
export const SC_VERSION = __VERSION__;
export const SPLITTER = '/*!sc*/
';

export const IS_BROWSER = typeof window !== 'undefined' && 'HTMLElement' in window;

export const DISABLE_SPEEDY =
  Boolean(typeof SC_DISABLE_SPEEDY === 'boolean'
    ? SC_DISABLE_SPEEDY
    : (typeof process !== 'undefined' &&
      typeof process.env.REACT_APP_SC_DISABLE_SPEEDY !== 'undefined' &&
      process.env.REACT_APP_SC_DISABLE_SPEEDY !== ''
        ?
          process.env.REACT_APP_SC_DISABLE_SPEEDY === 'false' ? false :
          process.env.REACT_APP_SC_DISABLE_SPEEDY
        :
          (typeof process !== 'undefined' && typeof
            process.env.SC_DISABLE_SPEEDY !== 'undefined' && process.env.SC_DISABLE_SPEEDY !== ''
              ?
                process.env.SC_DISABLE_SPEEDY === 'false' ? false :
                process.env.SC_DISABLE_SPEEDY
              :
                process.env.NODE_ENV !== 'production'
          )
    ));

// Shared empty execution context when generating static
styles\nexport const STATIC_EXECUTION_CONTEXT = {};
"// @flow
import errorMap from './errors';

const ERRORS = process.env.NODE_ENV !== 'production' ? errorMap : {};

/**
 * super basic
 * version of sprintf
 */
function format(...args) {
  let a = args[0];
  const b = [];

  for (let c = 1, len = args.length; c < len; c += 1) {
    b.push(args[c]);
  }

  b.forEach(d => {
    a = a.replace(/%[a-z]/, d);
  });

  return a;

/**
 * Create an error file out of errors.md for development and a simple web link to the full
 * error\n * in production mode.\n */
export default function throwStyledComponentsError(
  code: string |
  number,
  ...interpolations: Array<any>
) {
  if (process.env.NODE_ENV === 'production') {
    throw new Error(
      `An error occurred. See https://git.io/JUIaE#${code} for more information.${

          interpolations.length > 0 ? ` Args: ${interpolations.join(', ')}` : ''
          }`
    );
  } else {
    throw new Error(format(ERRORS[code], ...interpolations).trim());
  }
}

export default {"1":"Cannot create styled-
component for component: %s.\n\n","2":"Can't collect styles once you've consumed a `ServerStyleSheet`'s
styles! `ServerStyleSheet` is a one off instance for each server-side render cycle.\n\n- Are you trying to reuse it
across renders?\n- Are you accidentally calling collectStyles twice?\n\n","3":"Streaming SSR is only supported
in a Node.js environment; Please do not try to call this method in the browser.\n\n","4":"The
`StyleSheetManager` expects a valid target or sheet prop!\n\n- Does this error occur on the client and is your target
falsy?\n- Does this error occur on the server and is the sheet falsy?\n\n","5":"The clone method cannot be used
on the client!\n\n- Are you running in a client-like environment on the server?\n- Are you trying to run SSR on the
client?\n\n","6":"Trying to insert a new style tag, but the given Node is unmounted!\n\n- Are you using a
custom target that isn't mounted?\n- Does your document not have a valid head element?\n- Have you accidentally
removed a style tag manually?\n\n","7":"ThemeProvider: Please return an object from your \"theme\" prop
function, e.g.\n```
theme() {\n  return {\n    primary: 'red',\n    secondary: 'blue'\n  };\n}
```
\n","8":"ThemeProvider: Please make your \"theme\"
prop an object.\n\n","9":"Missing document `<head>`\n\n","10":"Cannot find a StyleSheet instance. Usually
this happens if there are multiple copies of styled-components loaded at once. Check out this issue for how to
troubleshoot and fix the common cases where this situation can happen: https://github.com/styled-
components/styled-components/issues/1941#issuecomment-417862021\n\n","11":"_This error was replaced
with a dev-time warning, it will be deleted for v4 final._ 
\n","12":"It seems you are interpolating
a keyframe declaration (%s) into an untagged string. This was supported in styled-components v3, but is not longer
supported in v4 as keyframes are now injected on-demand. Please wrap your string in the css\\`\\` helper which
ensures the styles are injected correctly. See https://www.styled-components.com/docs/api#css\n\n","13":"%s is
not a styled component and cannot be referred to via component selector. See https://www.styled-
components.com/docs/advanced#referring-to-other-components for more details.\n\n","14":"ThemeProvider:
\"theme\" prop is required.\n\n","15":"A stylis plugin has been supplied that is not named. We need a name
for each plugin to be able to prevent styling collisions between different stylis configurations within the same app.
Before you pass your plugin to `<StyleSheetManager stylisPlugins={[[]]}>`, please make sure each plugin is
uniquely-named, e.g.\n```
\n```
\n","16":"Reached the limit of how many styled components may be created at group %s.\n\nYou may
only create up to 1,073,741,824 components. If you're creating components dynamically, you may hit this limitation. If you're using in your
render method then you may be running into this limitation.

CSSStyleSheet could not be found on HTMLStyleElement.
Has styled-components' style tag been unmounted or altered by another script?

/* eslint-disable no-use-before-define */

import type { GroupedTag, Tag } from './types';
import { SPLITTER } from './constants';
import throwStyledError from '../utils/error';

/** Create a GroupedTag with an underlying Tag implementation */
export const makeGroupedTag = (tag: Tag): GroupedTag => {
  return new DefaultGroupedTag(tag);
};

const BASE_SIZE = 1 << 9;

class DefaultGroupedTag implements GroupedTag {
  groupSizes: Uint32Array;

  length: number;

  tag: Tag;

  constructor(tag: Tag) {
    this.groupSizes = new Uint32Array(BASE_SIZE);
    this.length = BASE_SIZE;
    this.tag = tag;
  }

  indexOfGroup(group: number): number {
    let index = 0;
    for (let i = 0; i < group; i++) {
      index += this.groupSizes[i];
    }

    return index;
  }

  insertRules(group: number, rules: string[]): void {
    if (group >= this.groupSizes.length) {
      const oldBuffer = this.groupSizes;
      const oldSize = oldBuffer.length;

      let newSize = oldSize;
      while (group >= newSize) {
        newSize <<= 1;
        if (newSize < 0) {
          throwStyledError(16, `${group}`);
        }
      }

      this.groupSizes = new Uint32Array(newSize);
      this.groupSizes.set(oldBuffer);
      this.length = newSize;

      for (let i = oldSize; i < newSize; i++) {
        this.groupSizes[i] = 0;
      }
    }

    let ruleIndex = this.indexOfGroup(group + 1);
    for (let i = 0, l = rules.length; i < l; i++) {
      if (this.tag.insertRule(ruleIndex, rules[i])) {
        this.groupSizes[group]++;
        ruleIndex++;
      }
    }
  }

  clearGroup(group: number): void {
    if (group < this.length) {
      const length = this.groupSizes[group];
      const startIndex = this.indexOfGroup(group);
      const endIndex = startIndex + length;

      this.groupSizes[group] = 0;
      for (let i = startIndex; i < endIndex; i++) {
        this.tag.deleteRule(startIndex);
      }
    }
  }

  getGroup(group: number): string {
    let css = '';
    if (group >= this.length || this.groupSizes[group] === 0) {
      return css;
    }

    const length = this.groupSizes[group];
    const startIndex = this.indexOfGroup(group);
    const endIndex = startIndex + length;

    for (let i = startIndex; i < endIndex; i++) {
      css += `${this.tag.getRule(i)}${SPLITTER}`;
    }

    return css;
  }
}

import throwStyledError from '../utils/error';

const MAX_SMI = 1 << 31 - 1;

let groupIDRegister: Map<string, number> = new Map();
let reverseRegister: Map<number, string> = new Map();
let nextFreeGroup = 1;

export const resetGroupIds = () => {
  groupIDRegister = new Map();
  reverseRegister = new Map();
  nextFreeGroup = 1;
};

export const getGroupForId = (id: string): number => {
  if (groupIDRegister.has(id)) {
    return (groupIDRegister.get(id): any);
  }

  while (reverseRegister.has(nextFreeGroup)) {
    nextFreeGroup++;
  }

  const group = nextFreeGroup++;

  if (process.env.NODE_ENV !== 'production' &&
      ((group | 0) < 0 || group > MAX_SMI)) {
    throwStyledError(16, `${group}`);
  }

  groupIDRegister.set(id, group);
  reverseRegister.set(group, id);
  return group;
};

export const getIdForGroup = (group: number): void | string => {
  return reverseRegister.get(group);
};

export const setGroupForId = (id: string, group: number) => {
  if (group >= nextFreeGroup) {
    nextFreeGroup = group + 1;
  }

  groupIDRegister.set(id, group);
  reverseRegister.set(group, id);
};

const SPLITTER = '_'

const SC_ATTR = 'style\.[\w_-]+\[id=\"[\w\d-]+\"\]';

const SC_ATTR_ACTIVE = 'style\.[\w_-]+\[id=\"[\w\d-]+\"\][^\s]*' + SC_ATTR + '\]\{active\}\[id=\"[\w\d-]+\"\]';

const SC_ATTR_VERSION = 'style\.[\w_-]+\[id=\"[\w\d-]+\"\][^\s]*' + SC_ATTR + '\]\{version\}\[id=\"[\w\d-]+\"\]';

const SC_VERSION = 'style\.[\w_-]+\[id=\"[\w\d-]+\"\][^\s]*' + SC_ATTR + '\]\{version\}\[id=\"[\w\d-]+\"\][^\s]*' + SC_ATTR_VERSION + '\}';

export const outputSheet = (sheet: Sheet) => {
  const tag = sheet.getTag();
  const { length } = tag;

  let css = '';
  for (let group = 0; group < length; group++) {
    const id = getIdForGroup(group);
    if (id === undefined) continue;

    const names = sheet.names.get(id);
    const rules = tag.getGroup(group);
    if (!names || !rules || !names.size) continue;

    const selector = `style[${SC_ATTR}]${SC_ATTR_VERSION}=${SC_VERSION}$\}\{\} `;

    const markerRe = new RegExp(`^${SC_ATTR}\.g(\d+)\[id="([\w\d-]+)"\].*?"([^\"]*)`);

    const out = sheet.outputContent();

    css += `${out}\n${selector}{content:"${Content ? markerRe : ''}"${SPLITTER}}

    return css;
};

export const rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {
  const names = sheet.names.get(id);
  const rules = tag.getGroup(id);
  if (!names || rules || names.size) continue;

  const selector = `\${SC_ATTR}\$\{group\}[\$\{id\}\]`;

  let content = '';
  if (names !== undefined) {
    content += `${Content ? markerRe : ''}"${Content ? markerRe : ''}"${SPLITTER}`;

    return css;
  }

  const rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {
    if (names !== undefined) {
      for (const name in content) {
        if (name.length > 0) {
          content += `\{${name}\}`;
        }
      }
    }

    // NOTE: It's easier to collect rules and have the marker
    // after the actual rules to simplify the rehydration

    css += `${Content ? markerRe : ''}"${Content ? markerRe : ''}"${SPLITTER}`;

    return css;
};
const rehydrateSheetFromTag = (sheet: Sheet, style: HTMLStyleElement) => {
  const parts = (style.textContent || '').split(SPLITTER);
  const rules: string[] = [];
  for (let i = 0, l = parts.length; i < l; i++) {
    const part = parts[i].trim();
    if (!part) continue;
    const marker = part.match(MARKER_RE);
    if (marker) {
      const group = parseInt(marker[1], 10) | 0;
      const id = marker[2];
      if (group !== 0) {
        // Rehydrate componentId to group index mapping
        setGroupForId(id, group);
        // Rehydrate names and rules
        // looks like: data-
        // styled.g11[id="idA"]{content:"nameA,"}
        rehydrateNamesFromContent(sheet, id, marker[3]);
        sheet.getTag().insertRules(group, rules);
      }
    }
  }
}

export const rehydrateSheet = (sheet: Sheet) => {
  const nodes = document.querySelectorAll(SELECTOR);
  for (let i = 0, l = nodes.length; i < l; i++) {
    const node = nodes[i];
    if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE) {
      rehydrateSheetFromTag(sheet, node);
      if (node.parentNode) {
        node.parentNode.removeChild(node);
      }
    }
  }
};

const getNonce = () => {
  return typeof window !== 'undefined'
    ? typeof window.__webpack_nonce__ !== 'undefined'
      ? window.__webpack_nonce__
      : null
    : null;
};

export default getNonce;

import { SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from '../constants';
import getNonce from '../utils/nonce';
import throwStyledError from '../utils/error';

/** Find last style element if any inside target */
const findLastStyleTag = (target: HTMLElement): void | HTMLStyleElement => {
  const { childNodes } = target;
  for (let i = childNodes.length; i >= 0; i--) {
    const child = childNodes[i];
    if (child && child.nodeType === ELEMENT_TYPE && child.hasAttribute(SC_ATTR)) {
      return child;
    }
  }
  return undefined;
}

/** Get the CSSStyleSheet instance for a given style element */
export const getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {
  if (tag.sheet) {
    return tag.sheet;
  }
  // Avoid Firefox quirk where the style element might not have a sheet property
  const { styleSheets } = document;
  for (let i = 0, l = styleSheets.length; i < l; i++) {
    const sheet = styleSheets[i];
    if (sheet.ownerNode === tag) {
      return sheet;
    }
  }
  throwStyledError(17);
  return undefined;
}

/** A Tag that emulates the CSSStyleSheet API but uses text nodes */
export class TextTag implements Tag {
  element: HTMLStyleElement = makeStyleTag();
  sheet: CSSStyleSheet = getSheet(element);
  length: number = 0;

  insertRule(index: number, rule: string): boolean {
    try {
      this.sheet.insertRule(rule, index);
      this.length++;
      return true;
    } catch (error) {
      return false;
    }
  }
  deleteRule(index: number): void {
    this.sheet.deleteRule(index);
    this.length--;
  }
  getRule(index: number): string {
    const rule = this.sheet.cssRules[index];
    if (rule) {
      return rule.cssText;
    } else {
      return '';
    }
  }
}

export class CSSOMTag implements Tag {
  element: HTMLStyleElement;
  sheet: CSSStyleSheet;
  length: number;
  constructor(target: HTMLElement | CSSStyleSheet | CSSOMTag | TextTag) {
    this.element = target;
    this.sheet = CSSStyleSheet(target);
    this.length = 0;
    this.style = target;
  }
  insertRule(index: number, rule: string): boolean {
    try {
      this.sheet.insertRule(rule, index);
      this.length++;
      return true;
    } catch (error) {
      return false;
    }
  }
  deleteRule(index: number): void {
    this.sheet.deleteRule(index);
    this.length--;
  }
  getRule(index: number): string {
    const rule = this.sheet.cssRules[index];
    if (rule) {
      return rule.cssText;
    } else {
      return '';
    }
  }
}

// A Tag that emulates the CSSStyleSheet API but uses text nodes
// A Tag that emulates the CSSStyleSheet API but uses text nodes

Tag { element: HTMLStyleElement;\n  nodes: NodeList<
    Node>;
  length: number;
  constructor(target?: HTMLElement) {\n    const element = (this.
      element = makeStyleTag(target));\n    this.nodes = element.
    childNodes;\n    this.length = 0;\n  }\n  insertRule(index: number, rule: string): boolean {\n    if (index <= this.length && index >= 0) {\n      const node = document.createTextNode(rule);\n      const refNode = this.
        nodes[index];\n      this.
        element.insertBefore(node, refNode || null);\n      this.
        length++;
      return true;\n    }\n    else {\n      return false;\n    }
  }\n  deleteRule(index: number): void {\n    void \n      (this.
        element.removeChild(this.
          nodes[index]));\n    this.
      length--;\n  }\n  getRule(index: number): string {\n    if (index < this.
      length) {\n      return this.
        nodes[index].textContent;\n    }\n    else {\n      return "\n    \n  }\n};\n
CSSStyleTag {\n  style: CSSStyleDeclaration;\n  nodes: NodeList\n    <Node>;
  length: number;\n  constructor(target?: HTMLElement) {\n    this.style = this.
      createStyleDeclaration();\n    this.nodes = this.
      createStyleNodes();\n    this.
      length = 0;\n  }\n  insertRule(index: number, rule: string): boolean {\n    if (index <= this.
      length && index >= 0) {\n      const node = document.createTextNode(
        rule);\n      const refNode = this.
        nodes[index];\n      this.
        element.insertBefore(node, refNode || null);\n      this.
        length++;
      return true;\n    }\n    else {\n      return false;\n    }
  }\n  deleteRule(index: number): void {\n    this.
      element.removeChild(this.
        nodes[index]);\n    this.
      length--;
  }\n  getRule(index: number): string {\n    if (index < this.
      length) {\n      return this.
        nodes[index].textContent;\n    }\n    else {\n      return "\n    \n  }\n}
AD_REPLACER_R = /(a)(d)/gi;

/* This is the \"capacity\" of our alphabet i.e. 2x26 for all letters plus their
capitalised counterparts \nThe const charsLength = 52; \n\n*/
const charsLength = 52;

/* start at 75 for 'a' until 'z' (25) and then start at 65 for
capitalised letters */
const getAlphabeticChar = (code: number): string =>
  String.fromCharCode(code + (code > 25 ? 39 : 97));

/* input a number, usually a hash and convert it to base-52 */
generateAlphabeticName = (code: number): string => {
  let name = getAlphabeticChar(x % charsLength) + name
  return (getAlphabeticChar(x % charsLength) + name).replace(AD_REPLACER_R, '$1-$2');
};

const SEED = 5381;

export default function generateAlphabeticName(code: number): string {
  let name = '';
  let x;

  for (x = Math.abs(code); x > charsLength; x = (x / charsLength) | 0) {
    name = getAlphabeticChar(x % charsLength) + name;
    x %= charsLength;
  }

  return name.replace(AD_REPLACER_R, '$1-$2');
}

export const SEED = 5381;

export const phash = (h: number, x: string): number => {
  let i = x.length;

  while (i) {
    h = (h * 33) ^ x.charCodeAt(--i);
  }

  return h;
};

export const hash = (x: string): number => {
  return phash(SEED, x);
};

export default function isStaticRules(rules: RuleSet): boolean {
  for (let i = 0; i < rules.length; i++) {
    const rule = rules[i];

    if (isFunction(rule) && !isStyledComponent(rule)) {
      return false;
    }
  }

  return true;
}

const SEED = hash(SC_VERSION);

/**
 * ComponentStyle is all the CSS-specific stuff, not the React-specific stuff.
 */
export default class ComponentStyle {
  baseHash: number;
  baseStyle: ComponentStyle;
  componentId: string;
  isStatic: boolean;
  rules: RuleSet;

  constructor(rules: RuleSet, componentId: string, baseStyle?: ComponentStyle) {
    this.rules = rules;
    this.staticRulesId = '';
    this.isStatic = process.env.NODE_ENV === 'production' &&
      !baseStyle || baseStyle.isStatic;
    this.componentId = componentId;

    this.baseHash = phash(SEED, componentId);

    this.baseStyle = baseStyle;

    StyleSheet.registerId(componentId);

    // SC_VERSION gives us isolation between multiple runtimes on the page at once
    // this is improved further with use of the babel plugin \n
    this.baseStyle = baseStyle;

    const names = [];

    if (this.baseStyle)
      names.push(this.baseStyle.generateAndInjectStyles());

    if (this.isStatic)
      names.push(this.staticRulesId);

    if (this.staticRulesId)
      names.push(this.staticRulesId);

    const css = flatten(this.rules, executionContext, styleSheet, stylis); 

    const name = generateName(phash(this.baseHash, stylis) >>> 0);

    if (this.isStatic && !styleSheet.hasNameForId(componentId, this.staticRulesId))
      styleSheet.insertRules(componentId, name, cssFormatted);

    if (this.staticRulesId && styleSheet.hasNameForId(componentId, this.staticRulesId))
      styleSheet.insertRules(componentId, name, cssFormatted);

    // for this component's styles compared to others
    StyleSheet.registerId(componentId);

    StyleSheet.insertRules(componentId, name, cssFormatted);

    // force dynamic classnames if user-supplied stylis plugins are in use
    if (this.isStatic &
      styli.hash)
      styleSheet.insertRules(componentId, name, cssFormatted);
```javascript
const stylis = new Stylis(options);
// Wrap `insertRulePlugin to build a list of rules, // and then make our own plugin to return the rules. This // makes it easier to hook into the existing SSR architecture
const parsingRules = [];
// eslint-disable-next-line consistent-return
const returnRulesPlugin = context => {
  if (context === -2)
    return parsingRules;
  parsingRules = [];
  return parsingRules;
};
const parseRulesPlugin = insertRulePlugin(rule => {
  parsingRules.push(rule);
});
const _componentId: string;
let _selector: string;
let _selectorRegexp: RegExp;
let _consecutiveSelfRefRegExp: RegExp;
selfReferenceReplacer = (match, offset, string) => {
  if (∵ string.match(_selectorRegexp) || string[_selector.length] === ':') {
    return `.${_componentId}`;
  }
};

/**
 * When writing a style like
 *
 * & + & {
 *   color: red;
 * }
 *
 * The second ampersand should be a reference to the static component class. stylis
 * has no knowledge of static class so we have to intelligently replace the base selector.
 * https://github.com/thysultan/stylis.js/tree/v3.5.4#plugins <-
 * more info about the context phase values
 * "2" means this plugin is taking effect at the very end after all other processing is complete
 */
const selfReferenceReplacementPlugin = (context, _, selectors) => {
  if (context === 2 && selectors.length && selectors[0].lastIndexOf(_selector) > 0) {
    // eslint-disable-next-line no-param-reassign
    selectors[0] = selectors[0].replace(_selectorRegexp, selfReferenceReplacer);
  }
};
```

```text
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```

```python
def ruleSheet(block):
    if block:
        try:
            insertRule(block)}
        except:
            pass
```
context,\n content,\n selectors,\n parents,\n line,\n column,\n length,\n ns,\n depth,\n at\n ) {\n
switch (context) {\n
// property\n
case 1:\n
// @import\n
if (depth === 0 && content.charCodeAt(0)
=== 64) return insertRule(`${content};`), '';\n
break;\n
// selector\n
case 2:\n
if (ns === 0) return
content + delimiter;\n
break;\n
// at-rule\n
case 3:\n
switch (ns) {\n
// @font-face, @page\n
case 102:\n
case 112:\n
return insertRule(selectors[0] + content), '';\n
default:\n
return
content + (at === 0 ? delimiter : '');\n
}\n
case -2:\n
content.split(needle).forEach(toSheet);\n }\n
};\n}\n","// @flow\nimport React, { type Context, type Node, useContext, useEffect, useMemo, useState } from
'react';\nimport shallowequal from 'shallowequal';\nimport StyleSheet from '../sheet';\nimport type { Stringifier }
from '../types';\nimport createStylisInstance from '../utils/stylis';\n\ntype Props = {\n children?: Node,\n
disableCSSOMInjection?: boolean,\n disableVendorPrefixes?: boolean,\n sheet?: StyleSheet,\n stylisPlugins?:
Array<Function>,\n target?: HTMLElement,\n};\n\nexport const StyleSheetContext: Context<StyleSheet | void> =
React.createContext();\nexport const StyleSheetConsumer = StyleSheetContext.Consumer;\nexport const
StylisContext: Context<Stringifier | void> = React.createContext();\nexport const StylisConsumer =
StylisContext.Consumer;\n\nexport const masterSheet: StyleSheet = new StyleSheet();\nexport const masterStylis:
Stringifier = createStylisInstance();\n\nexport function useStyleSheet(): StyleSheet {\n return
useContext(StyleSheetContext) || masterSheet;\n}\n\nexport function useStylis(): Stringifier {\n return
useContext(StylisContext) || masterStylis;\n}\n\nexport default function StyleSheetManager(props: Props) {\n const
[plugins, setPlugins] = useState(props.stylisPlugins);\n const contextStyleSheet = useStyleSheet();\n\n const
styleSheet = useMemo(() => {\n let sheet = contextStyleSheet;\n\n if (props.sheet) {\n
// eslint-disable-nextline prefer-destructuring\n
sheet = props.sheet;\n } else if (props.target) {\n
sheet =
sheet.reconstructWithOptions({ target: props.target }, false);\n }\n\n if (props.disableCSSOMInjection) {\n
sheet = sheet.reconstructWithOptions({ useCSSOMInjection: false });\n }\n\n return sheet;\n },
[props.disableCSSOMInjection, props.sheet, props.target]);\n\n const stylis = useMemo(\n () =>\n
createStylisInstance({\n
options: { prefix: !props.disableVendorPrefixes },\n
plugins,\n
}),\n
[props.disableVendorPrefixes, plugins]\n );\n\n useEffect(() => {\n if (!shallowequal(plugins,
props.stylisPlugins)) setPlugins(props.stylisPlugins);\n }, [props.stylisPlugins]);\n\n return (\n
<StyleSheetContext.Provider value={styleSheet}>\n
<StylisContext.Provider value={stylis}>\n
{process.env.NODE_ENV !== 'production'\n
? React.Children.only(props.children)\n
: props.children}\n
</StylisContext.Provider>\n </StyleSheetContext.Provider>\n );\n}\n","// @flow\nimport StyleSheet from
'../sheet';\nimport { type Stringifier } from '../types';\nimport throwStyledError from '../utils/error';\nimport {
masterStylis } from './StyleSheetManager';\n\nexport default class Keyframes {\n id: string;\n\n name: string;\n\n
rules: string;\n\n constructor(name: string, rules: string) {\n this.name = name;\n this.id = `sc-keyframes${name}`;\n this.rules = rules;\n }\n\n inject = (styleSheet: StyleSheet, stylisInstance: Stringifier = masterStylis)
=> {\n const resolvedName = this.name + stylisInstance.hash;\n\n if (!styleSheet.hasNameForId(this.id,
resolvedName)) {\n
styleSheet.insertRules(\n
this.id,\n
resolvedName,\n
stylisInstance(this.rules,
resolvedName, '@keyframes')\n
);\n }\n };\n\n toString = () => {\n return throwStyledError(12,
String(this.name));\n };\n\n getName(stylisInstance: Stringifier = masterStylis) {\n return this.name +
stylisInstance.hash;\n }\n}\n","// @flow\n\n/**\n * inlined version of\n *
https://github.com/facebook/fbjs/blob/master/packages/fbjs/src/core/hyphenateStyleName.js\n */\n\nconst
uppercaseCheck = /([A-Z])/;\nconst uppercasePattern = /([A-Z])/g;\nconst msPattern = /^ms-/;\nconst
prefixAndLowerCase = (char: string): string => `-${char.toLowerCase()}`;\n\n/**\n * Hyphenates a camelcased
CSS property name, for example:\n *\n * > hyphenateStyleName('backgroundColor')\n * < \"backgroundcolor\"\n * > hyphenateStyleName('MozTransition')\n * < \"-moz-transition\"\n * >
hyphenateStyleName('msTransition')\n * < \"-ms-transition\"\n *\n * As Modernizr suggests
(http://modernizr.com/docs/#prefixed), an `ms` prefix\n * is converted to `-ms-`.\n *\n * @param {string} string\n *
@return {string}\n */\nexport default function hyphenateStyleName(string: string): string {\n return
uppercaseCheck.test(string)\n ? string\n .replace(uppercasePattern, prefixAndLowerCase)\n .replace(msPattern,
'-ms-')\n : string;\n}\n","// @flow\nimport { isElement } from 'react-is';\nimport getComponentName from

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import isFunction from './isFunction';
import isStatelessFunction from './isStatelessFunction';
import isPlainObject from './isPlainObject';
import isStyledComponent from './isStyledComponent';
import Keyframes from '../models/Keyframes';
import hyphenate from './hyphenateStyleName';
import addUnitIfNeeded from './addUnitIfNeeded';
import { type Stringifier } from '../types';

/**
 * It's falsish not falsy because 0 is allowed.
 */
const isFalsish = chunk => chunk === undefined || chunk === null || chunk === false || chunk === '';

export const objToCssArray = (obj: Object, prevKey?: string): Array<string | Function> => {
  const rules = [];

  for (const key in obj) {
    if (!obj.hasOwnProperty(key) || isFalsish(obj[key])) continue;

    if ((Array.isArray(obj[key]) && obj[key].isCss) || isFunction(obj[key])) {
      rules.push(`${hyphenate(key)}:`, obj[key], ';');
    } else if (isPlainObject(obj[key])) {
      rules.push(...objToCssArray(obj[key], key));
    } else {
      rules.push(`${hyphenate(key)}:`, addUnitIfNeeded(key, obj[key]), ';');
    }
  }

  return prevKey ? `[${prevKey} {` + ...rules + `}]` : rules;
};

export default function flatten(
  chunk: any,
  executionContext: ?Object,
  styleSheet: ?Object,
  stylisInstance: ?Stringifier
): any {
  if (Array.isArray(chunk)) {
    const ruleSet = [];

    for (let i = 0, len = chunk.length, result; i < len; i += 1) {
      result = flatten(chunk[i], executionContext, styleSheet, stylisInstance);

      if (result === '') continue;
      else if (Array.isArray(result)) ruleSet.push(...result);
      else ruleSet.push(result);
    }

    return ruleSet;
  }

  if (isFalsish(chunk)) {
    return '';
  }

  /* Handle other components */
  if (isStyledComponent(chunk)) {
    return `.${chunk.styledComponentId}`;
  }

  /* Either execute or defer the function */
  if (isFunction(chunk)) {
    if (isStatelessFunction(chunk) && executionContext)
    {
      const result = chunk(executionContext);

      if (process.env.NODE_ENV !== 'production' &&
      isElement(result)) {
        // eslint-disable-next-line no-console
        console.warn(`
          ${getComponentName(chunk)} is not a styled component and cannot be referred to via component selector. See https://www.styled-components.com/docs/advanced#referring-to-other-components for more details.`);
      }

      return flatten(result, executionContext, styleSheet, stylisInstance);
    } else return chunk;
  }

  if (chunk instanceof Keyframes) {
    if (styleSheet) {
      chunk.inject(styleSheet, stylisInstance);
      return chunk.getName(stylisInstance);
    } else return chunk;
  }

  /* Handle objects */
  return isPlainObject(chunk) ? objToCssArray(chunk) : chunk.toString();
};

export default function isStatelessFunction(test: any): boolean {
  return (
    typeof test === 'function'
    && !(
      test.prototype
      && test.prototype.isReactComponent
    )
  );
}

// Taken from https://github.com/facebook/react/blob/b87aadfe1b7461e7331abb3601d9e6bb27544bc/packages/react-dom/src/shared/dangerousStyleValue.js
export default function addUnitIfNeeded(name: string, value: any): any {
  // $FlowFixMe
  if (value == null || typeof value === 'boolean' || value === '') {
    return '';
  }

  if (typeof value === 'number' && value !== 0 && !(name in unitless)) {
    return `${value}px`; // Presumes implicit 'px' suffix for unitless numbers
  }

  return String(value).trim();
};

// From https://github.com/amilajack/eslint-plugin-flowtype-errors/issues/133
// $FlowFixMe
return AddUnitIfNeeded.addUnitIfNeeded;
const originalConsoleError = console.error;
eslint-disable-line no-console

try {
  let didNotCallInvalidHook = true
  /* eslint-disable */
  console.error = (consoleErrorMessage, ...consoleErrorArgs) => {
    // The error here is expected, since we're expecting anything that uses
    checkDynamicCreation() to
    // be called outside of a React component.
    if (didNotCallInvalidHook) {
      // This shouldn't happen, but resets `warningSeen` if we had this error happen intermittently
      seen.delete(message);
    } else {
      console.error(consoleErrorMessage, ...consoleErrorArgs);
    }
  }
  // eslint-disable-line no-console

  // If a hook is called outside of a component:
  // React 17 and earlier throw an error
  // React 18 and above use console.error

  const
  originalConsoleError = console.error
  // eslint-disable-line no-console
  try {
    let didNotCallInvalidHook = true
    /* $FlowIgnore[cannot-write] */
    console.error = (consoleErrorMessage, ...consoleErrorArgs) => {
      // The error here is expected, since we're expecting anything that uses
      checkDynamicCreation() to
      // be called outside of a React component.
      if (didNotCallInvalidHook & &
        !seen.has(message)) {
        // eslint-disable-line no-console
        // We purposefully call `useRef` outside of a component and expect it to throw
        // If it doesn't, then we're inside
        another component.
        // eslint-disable-next-line react-hooks/rules-of-hooks
        useRef();

        if (didNotCallInvalidHook & &
          !seen.has(message)) {
          // eslint-disable-next-line no-console
          // The error here is expected, since we're expecting anything that uses
          checkDynamicCreation() to
          // be called outside of a React component.
          if (invalidHookCallRe.test(error.message)) {
            // This shouldn't happen, but resets
            `warningSeen` if we had this error happen intermittently
            seen.delete(message);
          } else {
            originalConsoleError(consoleErrorMessage, ...consoleErrorArgs);
          }
        }
      }
    }
  } finally {
    /* $FlowIgnore[cannot-write] */
    console.error = originalConsoleError; // eslint-disable-line no-console
  }

  // @flow
import { EMPTY_OBJECT } from './empties';

export
default (props: Props, providedTheme: any, defaultProps: any = EMPTY_OBJECT) => {
  return (props.theme !==
defaultProps.theme && props.theme) || providedTheme || defaultProps.theme;
};

export
/* eslint-disable */
import generateAlphabeticName from
'./generateAlphabeticName';
import { hash } from './hash';

export default (str: string): string => {
  return
  generateAlphabeticName(hash(str) >>> 0);
};

export default function isTag(target: IStyledComponent): boolean
{ %checks
  const
  isObject = val => {
    return
      typeof val === 'function' || (typeof val === 'object'
      & &
      val !== null & &
      Array.isArray(val))
  };

  const
  isValidKey = key => {
    return key !== '__proto__' & &
      key !== 'constructor' & &
      key !== 'prototype';
  };

  function mixin(target, val, key) {
    const
    obj = target[key];

    if (isObject(val) & &
      isObject(obj)) {
      mixinDeep(obj, val);
    } else {
      target[key] = val;
      // Remove extraneous hyphens at the start and end
      .replace(dashesAtEnds,
        "\n      );
    }
  }

  // @flow
  // eslint-disable-flow-type-check
  // @flow

  export default function isTag(target: $PropertyType<IStyledComponent, 'target'>): boolean %checks
  { %checks
    return (
      typeof target === 'string' & &
      (process.env.NODE_ENV !== 'production'
        ? target.charAt(0)
        & &
        target.charAt(0).toLowerCase()
        === target.charAt(0)
      : true)
    );
  }

  // @flow

  import type { IStyledComponent } from
  '../types';

  export default function isTag(target: $PropertyType<IStyledComponent, 'target'>): boolean %checks
  { %checks
    return (
      typeof target === 'string' &&
      (process.env.NODE_ENV !== 'production'
        ? target.charAt(0)
        & &
        target.charAt(0).toLowerCase()
        === target.charAt(0)
      : true)
    );
  }

  // @flow

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  //
```javascript
export default function mixinDeep(target, ...rest) {
  for (const obj of rest) {
    if (isObject(obj)) {
      for (const key in obj) {
        if (isValidKey(key)) {
          mixin(target, obj[key], key);
        }
      }
    }
  }

  return target;
}

export type Theme = { [key: string]: mixed };

export type ThemeArgument = Theme | ((outerTheme?: Theme) => Theme);

export const ThemeContext: Context<Theme | void> = React.createContext();

export const ThemeConsumer = ThemeContext.Consumer;

export function mergeTheme(theme: ThemeArgument, outerTheme?: Theme): Theme {
  if (!theme) {
    return throwStyledError(14);
  }

  if (isFunction(theme)) {
    const mergedTheme = theme(outerTheme);

    if (process.env.NODE_ENV !== 'production' &&
      (mergedTheme === null || Array.isArray(mergedTheme) || typeof mergedTheme !== 'object')
    ) {
      return throwStyledError(7);
    }

    return mergedTheme;
  }

  if (Array.isArray(theme) || typeof theme !== 'object') {
    return throwStyledError(8);
  }

  return outerTheme ? { ...outerTheme, ...theme } : theme;
}

/**
 * Provide a theme to an entire react component tree via context
 */
export default function ThemeProvider(props: Props) {

  const outerTheme = useContext(ThemeContext);
  const themeContext = useMemo(() => mergeTheme(props.theme, outerTheme), [
    props.theme,
    outerTheme,
  ]);

  if (!props.children) {
    return null;
  }

  return <ThemeContext.Provider value={themeContext}>{props.children}</ThemeContext.Provider>;
}
```

disable-next-line react-hooks/rules-of-hooks

if (process.env.NODE_ENV !== 'production')
  useDebugValue(className);

if (process.env.NODE_ENV !== 'production' && !isStatic &
  & warnTooManyClasses) {
  warnTooManyClasses(className);
}

return className;

if (process.env.NODE_ENV !== 'production' && !isStatic &&
  warnTooManyClasses) {
  warnTooManyClasses(className);
}

if (process.env.NODE_ENV !== 'production')
  useDebugValue(styledComponentId);

// eslint-disable-next-line react-hooks/rules-of-hooks
if (process.env.NODE_ENV !== 'production')
  useDebugValue(styledComponentId);

// NOTE: the non-hooks version only subscribes to this when

// should be an immutable value, but behave for now

const theme = determineTheme(props,
  useContext(ThemeContext), defaultProps);

const [context, attrs] = useResolvedAttrs(theme ||
  EMPTY_OBJECT, props, componentAtts);

const generatedClassName = useInjectedStyle(
  componentStyle, isStatic, context, process.env.NODE_ENV !== 'production' ?
  forwardedComponent.warnTooManyClasses : undefined);

const refToForward = forwardedRef;

const elementToBeCreated: Target = attrs.$as || props.$as || attrs.as || props.as || target;

const isTargetTag = isTag(elementToBeCreated);

// statically styled-components don't need
to build an execution context object,
// and shouldn't be increasing the number of class names
const isStatic = componentStyle.isStatic;

/**
 * forwardRef creates a new interim component, which
 * we'll take advantage of
 * instead of extending ParentComponent to create another_interim class
 */

let WrappedStyledComponent:

if (options.shouldForwardProp) {

  // eslint-disable-next-line prefer-destructuring
  let shouldForwardProp = options.shouldForwardProp;

  if (isTargetStyledComp &
      & target.shouldForwardProp) {

    // compose nested shouldForwardProp calls
    shouldForwardProp = (prop, filterFn, elementToBeCreated) =>


    filterFn, elementToBeCreated);

  } else {

    // eslint-disable-next-line prefer-destructuring
    shouldForwardProp = ((target: any): IStyledComponent).shouldForwardProp;

    const componentStyleIsNew = new ComponentStyle(rules,
      styledComponentId, isTargetStyledComp ?
        ((target: Object).componentStyle: ComponentStyle) : undefined);

    if (componentStyleIsNew) {
      // statically styled-components don't need to build an execution context object,
      // and shouldn't be increasing the number of class names
      const isStatic = componentStyleIsNew.isStatic &
        & attrs.length === 0;

      // forwardRef creates a new interim component, which
      // we'll take advantage of
      * instead of extending ParentComponent to create another_interim class
    }

    let WrappedStyledComponent:

    function wrapStyledComponent(
      wrappedComponent: IStyledComponent,
      wrappedClass: any
    ) {
      return className;
    }

    export default function createStyledComponent(
      target: $PropertyType<IStyledComponent, 'target'>,
      options: {
        attrs?: Attrs,
        componentName: string,
        displayName?: string,
        parentComponentId?: string,
        shouldForwardProp?: ShouldForwardProp,
      },
      rules:

      export function returnElement(componentToBeCreated: Target): Target {
        return
      }

      export function createStyledComponent(
        target: any,
        options: {
          shouldForwardProp?: ShouldForwardProp,
        },
        rules: RuleSet
      ) {
        const Target = attrSas || props.$$as || attrSs.$$as || props.$$as || target;

        const isTargetTag = isTag(elementToBeCreated);

        const generatedProps = attrs !== props ? { ...props, ...attrs } : props;

        const computedProps = generatedProps;

        // static component styling doesn't need a context
        const isStatic = componentStyleIsStatic;

        // eslint-disable-next-line react-hooks/rules-of-hooks
        if (process.env.NODE_ENV !== 'production')
          useDebugValue(styledComponentId);

        // NOTE: the non-hooks version only subscribes to this when

        // should be an immutable value, but behave for now

        const theme = determineTheme(props,
          useContext(ThemeContext), defaultProps);

        const [context, attrs] = useResolvedAttrs(theme ||
          EMPTY_OBJECT, props, componentAtts);

        const generatedClassName = useInjectedStyle(
          componentStyle, isStatic, context, process.env.NODE_ENV !== 'production' ?
          forwardedComponent.warnTooManyClasses : undefined);

        const refToForward = forwardedRef;

        const elementToBeCreated: Target = attrs.$as || props.$as || attrs.as || props.as || target;

        const isTargetTag = isTag(elementToBeCreated);

        // statically styled-components don't need
to build an execution context object,
        // and shouldn't be increasing the number of class names
        const isStatic = componentStyle.isStatic &
          & attrs.length === 0;

        // forwardRef creates a new interim component, which
        // we'll take advantage of
        * instead of extending ParentComponent to create another_interim class
    }

    let WrappedStyledComponent:

    export function returnElement(componentToBeCreated: Target): Target {
      return
    }

    export function createStyledComponent(
      target: any,
      options: {
        shouldForwardProp?: ShouldForwardProp,
      },
      rules: RuleSet
    ) {
      const Target = attrSas || props.$$as || attrSs.$$as || props.$$as || target;

      const isTargetTag = isTag(elementToBeCreated);

      const generatedProps = attrs !== props ? { ...props, ...attrs } : props;

      const computedProps = generatedProps;

      // static component styling doesn't need a context
      const isStatic = componentStyleIsStatic;
1.701 go-zfs 2.1.2-0.2019041322219-f784269be439+incompatible

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1.702 cidr-tools 3.0.4

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1.703 string-prototype-trimright 2.1.2

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1.704 react 17.0.2

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1.705 bash 4.4.18 2ubuntu1.2

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1.706 charset-normalizer 2.0.12

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1.707 @babel/plugin-syntax-jsx 7.12.13

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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
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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, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vituslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryninger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
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Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
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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 as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédéric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
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Koir, Klemen
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Marchal, Frédéric
Margevičius, Algimantas
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Saré, zg
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
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Uranga, Mikel Olasagasti
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1.710 uwsgi 2.0.20

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI) in the Netherlands as a successor of a language called ABC. Guido is Python's principal author, although it includes many contributions from others. The last version released from CWI was Python 1.2. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI) in Reston.
Virginia where he released several versions of the software. Python 1.6 was the last of the versions released by CNRI. In 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. Python 2.0 was the first and only release from BeOpen.com.

Following the release of Python 1.6, and after Guido van Rossum left CNRI to work with commercial software developers, it became clear that the ability to use Python with software available under the GNU Public License (GPL) was very desirable. CNRI and the Free Software Foundation (FSF) interacted to develop enabling wording changes to the Python license. Python 1.6.1 is essentially the same as Python 1.6, with a few minor bug fixes, and with a different license that enables later versions to be GPL-compatible. Python 2.1 is a derivative work of Python 1.6.1, as well as of Python 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 (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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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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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.>
The "Artistic License"

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  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
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  * Fixed pickle support of some exceptions

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* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket_fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)
* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a URL

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.
* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
* Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
* Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
* Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
* Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in ``stream`` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.
* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@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

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urlib2.urlopen().geturl()` behavior
* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <stycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]
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1.745 gmp 6.1.2+dfsg-4+deb10u1

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This gmp package was built for Debian by

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1.747 adduser 3.118

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1.752 prometheus-common 0.15.0

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1.753 goprotobuf 1.5.2

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### 1.758 grpc-gateway 1.16.0

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1.760 requests-oauthlib 1.3.1

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>>> aws-aws-sdk-go-aws-master
>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6de46002
>>> coreos_etcd_version-781196fa8746d6c34ace2a62898051af6de46002
>>> coreos_go-semver_semver-5e3acb5668c4c3deb4842615c4098eb61fb6b1e
>>> docker_distribution-28602af35aced2f8d571bad7ca37a54cf0250bc
>>> docker_go-events-aa2e3b613f3b7dddbe055a7b9e3ce271cfd83eca
>>> docker_libnetwork-fd27f22aaa35e3d5f88688f919d05b744f431fd
>>> docker_libtrust-9cbfd2a1374f46905c68a4eb3694a130610adc62a
>>> go-openapi_analysis-d5a75b7df751ca3f11ad5d93ce9740f52c3f6a47
>>> go-openapi_errors-fc3f73a224499b047eda7191e5d22e1e9631e86f
>>> go-openapi_jsonpointer-77f4f5308c19820f1a6e9a4cd965f496e0da10f
>>> go-openapi_jsonreference-36d33bdf5e19fa5632669801b180bf1a245da3b
>>> go-openapi_loads-6bb6486231e079ea1250cf39994ed3d0c53399ed
>>> go-openapi_runtime-3b13ebb46790d8717d74ae6c2450fa4b1280f90854
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>>> go_compute_metadata-cd0da878c66091060d2e7403adb62192b3e387e0
>>> go_internal-cd0da878c66091060d2e7403adb62192b3e387e0
>>> golang-glog-23def4e6c14b4da8ac2ed8007337bc5eb5007998
>>> golang_groupcache_lru-72d04f9fcedc73d821820cc4a6f150eae553639a
>>> govmoni-v0.17.1
>>> maruel_panicparse_stack-25bcac0d793cf410948350a0d66e066a390a80
>>> oxtocart/bpool-4e1c5567d72dd59fa4c783d34c2f1528b025d6
>>> syncutil_singleflight-7ce08c1a45db0e66a127c447b800ee7914f3e4ff
>>> vdmeeister_shakers-24d7f1f6a71aa5d9be7390e4af66b7eef9e1b3
>>> vishvananda_netlink-482f7a52b758233521878cb6e5904b66b63f3457
>>> vishvananda_netns-604eaf189ee8e67d8c147fafa28def2394e878d25
>>> yaml_v2-4c78975fe7c825c6d1466c42be594d1d6f3aba6

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>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51adc624b5cc4e1bf8de730a09af4878ffe2d
>>> api_compute_v1-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_gensupport-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_googleapi-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b5da4002bbcb
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>>> azure_go-ansiterm-70b2c90b260171e829f1ebd7c17f600c11858dbee
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>>> d2g_dhcp4client-master
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>>> boltdb_bolt-b514920f8f2e0a68f857e5a12c774f385a59ae9f9

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec

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>>> go-martini/martini-22fa46961aabd2665cf3f1343b146d20028f5071

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>>> go-nfs-client-42fca177a36031d648551c751de1daf5f55dd4f0

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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tomb - support for clean goroutine termination in Go.

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It was heavily inspired by the go blowfish package. 

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+build appengine

Package short implements a simple URL shortener, serving an administrative
interface at /s and shortened urls from /s/key.
It is designed to run only on the instance of godoc that serves golang.org.
package short

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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
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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
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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
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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
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Bison implementation for Yacc-like parsers in C


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

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TH NEWGRP 1 "9 October 1993" "Linux 12” "Linux Programmer's Manual"

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chkconfig:   2345 11 89
description: sets up CBQ-based traffic control

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Maciej Soltysiak <solt@dns.toxicfilms.tv>
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Reasonably optimised generic C-code for memcpy on Microblaze
This is generic C code to do efficient, alignment-aware memcpy.

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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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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 $
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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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bash-4.4.tar.gz/bash-4.4.tar/bash-4.4/lib/sh/inet_aton.c

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There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

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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which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
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There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

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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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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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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Preamble

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free 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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(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 such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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Version 2.1, February 1999

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

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

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

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

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

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

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

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Version 1.1 - 26 February 2007

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@import './layout';

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  border-radius: $radius-small;
  border-width: 1px;
}
%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
  @extend %notice;
}
%notice-success {
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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

```
$ curl
   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": []
}
```

### 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><code>PUT</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>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### 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

```text
$ curl \
    --request PUT \
    --data @consul.license \
    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"
        }
    }
}
```
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    @extend %notice-warning;
}
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    @extend %notice-info;
}
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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,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {

Entity

// no documentation yet
Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

// no documentation yet
KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"`

// no documentation yet
Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"`

}
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1.767 ghodss-yaml 1.0.1-0.20190212211648-25d852aebe32

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1.780 python-roman 2.0.0-3
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Metadata-Version: 1.1
Name: roman
Version: 2.0.0
Summary: Integer to Roman numerals converter
Home-page: http://pypi.python.org/pypi/roman
Author: Mark Pilgrim
Author-email: f8dy@diveintopython.org
License: Python 2.1.1
Description: ========

CHANGES
=======

2.0.0 (2013-02-25)
------------------

- Added Python 3.3 and PyPy support.
- Added tests.

1.4.0 (2009-07-23)
------------------

- Initial PyPI release.

Keywords: roman
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
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1.781 mpdecimal 2.5.1-2
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1.786 libusb 1.0.22-2

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

That's all there is to it!

1.797 x-xerrors 0.0.0-20200804184101-5ec99f83aff1

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1.798 tdb 1.44.1

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# Some simple tests for the Python bindings for TDB
# Note that this tests the interface of the Python bindings
# It does not test tdb itself.
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1.799 mime-support 3.62

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1.800 coreutils 8.30 3

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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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  Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

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src/base/fthash.c
src/base/md5.c
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1.832 debug 2.6.9

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1.833 os-prober 1.77

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1.837 moby-locker 1.0.1

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<opc:TypeDictionary
xmlns:opc="http://opcfoundation.org/BinarySchema/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ua="http://opcfoundation.org/UA/"
xmlns:tns="http://opcfoundation.org/UA/">
  DefaultByteOrder="LittleEndian"
  TargetNamespace="http://opcfoundation.org/UA/"
>

<opc:Import Namespace="http://opcfoundation.org/BinarySchema/" />

<opc:StructuredType Name="XmlElement">
  <opc:Documentation>An XML element encoded as a UTF-8 string.</opc:Documentation>
  <opc:Field Name="Length" TypeName="opc:Int32" />
  <opc:Field Name="Value" TypeName="opc:Char" LengthField="Length" />
</opc:StructuredType>

<opc:EnumeratedType Name="NodeIdType" LengthInBits="6">
  <opc:Documentation>The possible encodings for a NodeId value.</opc:Documentation>
  <opc:EnumeratedValue Name="TwoByte" Value="0" />
  <opc:EnumeratedValue Name="FourByte" Value="1" />
  <opc:EnumeratedValue Name="Numeric" Value="2" />
  <opc:EnumeratedValue Name="String" Value="3" />
  <opc:EnumeratedValue Name="Guid" Value="4" />
  <opc:EnumeratedValue Name="ByteString" Value="5" />
</opc:EnumeratedType>

<opc:StructuredType Name="TwoByteNodeId">
  <opc:Field Name="Identifier" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="FourByteNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:Byte" />
  <opc:Field Name="Identifier" TypeName="opc:UInt16" />
</opc:StructuredType>

<opc:StructuredType Name="NumericNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="StringNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
</opc:StructuredType>
<opc:Field Name="Identifier" TypeName="opc:CharSequence" />
</opc:StructuredType>

<opc:StructuredType Name="GuidNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:Guid" />
</opc:StructuredType>

<opc:StructuredType Name="ByteStringNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="NodeId">
  <opc:Documentation>An identifier for a node in a UA server address space.</opc:Documentation>
  <opc:Field Name="NodeIdType" TypeName="ua:NodeIdType" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
  <opc:Field Name="TwoByte" TypeName="ua:TwoByteNodeId" SwitchField="NodeIdType" SwitchValue="0" />
  <opc:Field Name="FourByte" TypeName="ua:FourByteNodeId" SwitchFields="NodeIdType" SwitchValue="1" />
  <opc:Field Name="Numeric" TypeName="ua:NumericNodeId" SwitchField="NodeIdType" SwitchValue="2" />
  <opc:Field Name="String" TypeName="ua:StringNodeId" SwitchField="NodeIdType" SwitchValue="3" />
  <opc:Field Name="Guid" TypeName="ua:GuidNodeId" SwitchField="NodeIdType" SwitchValue="4" />
  <opc:Field Name="ByteString" TypeName="ua:ByteStringNodeId" SwitchField="NodeIdType" SwitchValue="5" />
</opc:StructuredType>

<opc:StructuredType Name="ExpandedNodeId">
  <opc:Documentation>An identifier for a node in a UA server address space qualified with a complete namespace string.</opc:Documentation>
  <opc:Field Name="NodeIdType" TypeName="ua:NodeIdType" />
  <opc:Field Name="ServerIndexSpecified" TypeName="opc:Bit" />
  <opc:Field Name="NamespaceURISpecified" TypeName="opc:Bit" />
  <opc:Field Name="TwoByte" TypeName="ua:TwoByteNodeId" SwitchField="NodeIdType" SwitchValue="0" />
  <opc:Field Name="FourByte" TypeName="ua:FourByteNodeId" SwitchFields="NodeIdType" SwitchValue="1" />
  <opc:Field Name="Numeric" TypeName="ua:NumericNodeId" SwitchField="NodeIdType" SwitchValue="2" />
  <opc:Field Name="String" TypeName="ua:StringNodeId" SwitchField="NodeIdType" SwitchValue="3" />
  <opc:Field Name="Guid" TypeName="ua:GuidNodeId" SwitchField="NodeIdType" SwitchValue="4" />
  <opc:Field Name="ByteString" TypeName="ua:ByteStringNodeId" SwitchField="NodeIdType" SwitchValue="5" />
  <opc:Field Name="NamespaceURI" TypeName="opc:CharSequence" SwitchField="NamespaceURISpecified" />
</opc:StructuredType>

<opc:OpaqueType Name="StatusCode" LengthInBits="32" ByteOrderSignificant="true">
  <opc:Documentation>A 32-bit status code value.</opc:Documentation>
</opc:OpaqueType>
<opc:StructuredType Name="DiagnosticInfo">
  <opc:Documentation>A recursive structure containing diagnostic information associated with a status code.</opc:Documentation>
  <opc:Field Name="SymbolicIdSpecified" TypeName="opc:Bit" />
  <opc:Field Name="NamespaceURISpecified" TypeName="opc:Bit" />
  <opc:Field Name="LocaleSpecified" TypeName="opc:Bit" />
  <opc:Field Name="LocalizedTextSpecified" TypeName="opc:Bit" />
  <opc:Field Name="AdditionalInfoSpecified" TypeName="opc:Bit" />
  <opc:Field Name="InnerStatusCodeSpecified" TypeName="opc:Bit" />
  <opc:Field Name="InnerDiagnosticInfoSpecified" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
  <opc:Field Name="SymbolicId" TypeName="opc:Int32" SwitchField="SymbolicIdSpecified" />
  <opc:Field Name="NamespaceURI" TypeName="opc:Int32" SwitchField="NamespaceURISpecified" />
  <opc:Field Name="Locale" TypeName="opc:Int32" SwitchField="LocaleSpecified" />
  <opc:Field Name="LocalizedText" TypeName="opc:Int32" SwitchField="LocalizedTextSpecified" />
  <opc:Field Name="AdditionalInfo" TypeName="opc:CharArray" SwitchField="AdditionalInfoSpecified" />
  <opc:Field Name="InnerStatusCode" TypeName="ua:StatusCode" SwitchField="InnerStatusCodeSpecified" />
  <opc:Field Name="InnerDiagnosticInfo" TypeName="ua:DiagnosticInfo" SwitchField="InnerDiagnosticInfoSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="QualifiedName">
  <opc:Documentation>A string qualified with a namespace index.</opc:Documentation>
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Name" TypeName="opc:CharArray" />
</opc:StructuredType>

<opc:StructuredType Name="LocalizedText">
  <opc:Documentation>A string qualified with a namespace index.</opc:Documentation>
  <opc:Field Name="LocaleSpecified" TypeName="opc:Bit" />
  <opc:Field Name="TextSpecified" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="6" />
  <opc:Field Name="Locale" TypeName="opc:CharArray" SwitchField="LocaleSpecified" />
  <opc:Field Name="Text" TypeName="opc:CharArray" SwitchField="TextSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="DataValue">
  <opc:Documentation>A value with an associated timestamp, and quality.</opc:Documentation>
  <opc:Field Name="ValueSpecified" TypeName="opc:Bit" />
  <opc:Field Name="StatusCodeSpecified" TypeName="opc:Bit" />
  <opc:Field Name="SourceTimestampSpecified" TypeName="opc:Bit" />
  <opc:Field Name="SourcePicosecondsSpecified" TypeName="opc:Bit" />
  <opc:Field Name="ServerTimestampSpecified" TypeName="opc:Bit" />
  <opc:Field Name="ServerPicosecondsSpecified" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
  <opc:Field Name="Value" TypeName="ua:Variant" SwitchField="ValueSpecified" />
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" SwitchField="StatusCodeSpecified" />
</opc:StructuredType>
<opc:Field Name="SourceTimestamp" TypeName="opc:DateTime" SwitchField="SourceTimestampSpecified" />
<opc:Field Name="SourcePicoseconds" TypeName="opc:UInt16" SwitchField="SourcePicosecondsSpecified" />
<opc:Field Name="ServerTimestamp" TypeName="opc:DateTime" SwitchField="ServerTimestampSpecified" />
<opc:Field Name="ServerPicoseconds" TypeName="opc:UInt16" SwitchField="ServerPicosecondsSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="ExtensionObject">
<opc:Documentation>A serialized object prefixed with its data type identifier.</opc:Documentation>
<opc:Field Name="TypeIdSpecified" TypeName="opc:Bit" />
<opc:Field Name="BinaryBody" TypeName="opc:Bit" />
<opc:Field Name="XmlBody" TypeName="opc:Bit" />
<opc:Field Name="Reserved1" TypeName="opc:Bit" Length="5" />
<opc:Field Name="TypeId" TypeName="ua:ExpandedNodeId" SwitchField="TypeIdSpecified" />
<opc:Field Name="BodyLength" TypeName="opc:Int32" />
<opc:Field Name="Body" TypeName="opc:Byte" LengthField="BodyLength" />
</opc:StructuredType>

<opc:StructuredType Name="Variant">
<opc:Documentation>A union of several types.</opc:Documentation>
<opc:Field Name="VariantType" TypeName="opc:Bit" Length="6" />
<opc:Field Name="ArrayDimensionsSpecified" TypeName="opc:Bit" Length="1" />
<opc:Field Name="ArrayLengthSpecified" TypeName="opc:Bit" Length="1" />
<opc:Field Name="ArrayLength" TypeName="opc:Int32" SwitchField="ArrayLengthSpecified" />
<opc:Field Name="Boolean" TypeName="opc:Boolean" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="1" />
<opc:Field Name="SByte" TypeName="opc:SByte" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="2" />
<opc:Field Name="Byte" TypeName="opc:Byte" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="3" />
<opc:Field Name="Int16" TypeName="opc:Int16" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="4" />
<opc:Field Name="UInt16" TypeName="opc:UInt16" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="5" />
<opc:Field Name="Int32" TypeName="opc:Int32" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="6" />
<opc:Field Name="UInt32" TypeName="opc:UInt32" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="7" />
<opc:Field Name="Int64" TypeName="opc:Int64" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="8" />
<opc:Field Name="UInt64" TypeName="opc:UInt64" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="9" />
<opc:Field Name="Float" TypeName="opc:Float" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="10" />
<opc:Field Name="Double" TypeName="opc:Double" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="11" />
<opc:Field Name="String" TypeName="opc:CharArray" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="12" />
<opc:Field Name="DateTime" TypeName="opc:DateTime" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="13" />
  <opc:Field Name="Guid" TypeName="opc:Guid" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="14" />
  <opc:Field Name="ByteString" TypeName="opc:ByteString" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="15" />
  <opc:Field Name="XmlElement" TypeName="ua:XmlElement" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="16" />
  <opc:Field Name="NodeId" TypeName="ua:NodeId" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="17" />
  <opc:Field Name="ExpandedNodeId" TypeName="ua:ExpandedNodeId" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="18" />
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="19" />
  <opc:Field Name="QualifiedName" TypeName="ua:QualifiedName" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="20" />
  <opc:Field Name="LocalizedText" TypeName="ua:LocalizedText" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="21" />
  <opc:Field Name="ExtensionObject" TypeName="ua:ExtensionObject" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="22" />
  <opc:Field Name="DataValue" TypeName="ua:DataValue" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="23" />
  <opc:Field Name="Variant" TypeName="ua:Variant" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="24" />
  <opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="25" />
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" SwitchField="ArrayDimensionsSpecified"
/>  
  <opc:Field Name="ArrayDimensions" TypeName="opc:Int32" LengthField="NoOfArrayDimensions"
SwitchField="ArrayDimensionsSpecified"/>
</opc:StructuredType>

<opc:EnumeratedType Name="NamingRuleType" LengthInBits="32">
  <opc:EnumeratedValue Name="Mandatory" Value="1" />  
  <opc:EnumeratedValue Name="Optional" Value="2" />  
  <opc:EnumeratedValue Name="Constraint" Value="3" />
</opc:EnumeratedType>

<opc:OpaqueType Name="ImageBMP">
  <opc:Documentation>An image encoded in BMP format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="ImageGIF">
  <opc:Documentation>An image encoded in GIF format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="ImageJPG">
  <opc:Documentation>An image encoded in JPEG format.</opc:Documentation>
</opc:OpaqueType>
<opc:EnumeratedValue Name="GroupId" Value="4" />
<opc:EnumeratedValue Name="Anonymous" Value="5" />
<opc:EnumeratedValue Name="AuthenticatedUser" Value="6" />
</opc:EnumeratedType>

<opc:StructuredType Name="IdentityMappingRuleType" BaseType="ua:ExtensionObject">
    <opc:Field Name="CriteriaType" TypeName="tns:IdentityCriteriaType" />
    <opc:Field Name="Criteria" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="TrustListMasks" LengthInBits="32">
    <opc:EnumeratedValue Name="None" Value="0" />
    <opc:EnumeratedValue Name="TrustedCertificates" Value="1" />
    <opc:EnumeratedValue Name="TrustedCrls" Value="2" />
    <opc:EnumeratedValue Name="IssuerCertificates" Value="4" />
    <opc:EnumeratedValue Name="IssuerCrls" Value="8" />
    <opc:EnumeratedValue Name="All" Value="15" />
</opc:EnumeratedType>

<opc:StructuredType Name="TrustListDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="SpecifiedLists" TypeName="opc:UInt32" />
    <opc:Field Name="NoOfTrustedCertificates" TypeName="opc:Int32" />
    <opc:Field Name="TrustedCertificates" TypeName="opc:ByteString" LengthField="NoOfTrustedCertificates" />
    <opc:Field Name="NoOfTrustedCrls" TypeName="opc:Int32" />
    <opc:Field Name="TrustedCrls" TypeName="opc:ByteString" LengthField="NoOfTrustedCrls" />
    <opc:Field Name="NoOfIssuerCertificates" TypeName="opc:Int32" />
    <opc:Field Name="IssuerCertificates" TypeName="opc:ByteString" LengthField="NoOfIssuerCertificates" />
    <opc:Field Name="NoOfIssuerCrls" TypeName="opc:Int32" />
    <opc:Field Name="IssuerCrls" TypeName="opc:ByteString" LengthField="NoOfIssuerCrls" />
</opc:StructuredType>

<opc:StructuredType Name="DecimalDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="Scale" TypeName="opc:Int16" />
    <opc:Field Name="Value" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="DataTypeSchemaHeader" BaseType="ua:ExtensionObject">
    <opc:Field Name="NoOfNamespaces" TypeName="opc:UInt32" />
    <opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
    <opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
    <opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription" LengthField="NoOfStructureDataTypes" />
    <opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
    <opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes" />
    <opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
    <opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription" LengthField="NoOfSimpleDataTypes" />
</opc:StructuredType>
<opc:StructuredType>
  <opc:StructuredType Name="DataTypeDescription" BaseType="ua:ExtensionObject">
    <opc:Field Name="DataTypeId" TypeName="ua:NodeId" />
    <opc:Field Name="Name" TypeName="ua:QualifiedName" />
  </opc:StructuredType>
</opc:StructuredType>

<opc:StructuredType Name="StructureDescription" BaseType="tns:DataTypeDescription">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="StructureDefinition" TypeName="tns:StructureDefinition" />
</opc:StructuredType>

<opc:StructuredType Name="EnumDescription" BaseType="tns:DataTypeDescription">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="EnumDefinition" TypeName="tns:EnumDefinition" />
  <opc:Field Name="BuiltInType" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="SimpleTypeDescription" BaseType="tns:DataTypeDescription">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="BaseDataType" TypeName="ua:NodeId" />
  <opc:Field Name="BuiltInType" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="UABinaryFileDataType" BaseType="tns:DataTypeSchemaHeader">
  <opc:Field Name="NoOfNamespaces" TypeName="opc:Int32" />
  <opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
  <opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription" LengthField="NoOfStructureDataTypes" />
  <opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes" />
  <opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription" LengthField="NoOfSimpleDataTypes" />
  <opc:Field Name="SchemaLocation" TypeName="opc:String" />
  <opc:Field Name="NoOfFileHeader" TypeName="opc:Int32" />
  <opc:Field Name="FileHeader" TypeName="tns:KeyValuePair" LengthField="NoOfFileHeader" />
  <opc:Field Name="Body" TypeName="ua:Variant" />
</opc:StructuredType>

<opc:EnumeratedType Name="PubSubState" LengthInBits="32">
  <opc:EnumeratedValue Name="Disabled" Value="0" />
  <opc:EnumeratedValue Name="Paused" Value="1" />
</opc:EnumeratedType>
<opc:StructuredType Name="PublishedDataSetDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="NoOfDataSetFolder" TypeName="opc:Int32" />
  <opc:Field Name="DataSetFolder" TypeName="opc:String" LengthField="NoOfDataSetFolder" />
  <opc:Field Name="DataSetMetaData" TypeName="tns:DataSetMetaDataType" />
  <opc:Field Name="NoOfExtensionFields" TypeName="opc:Int32" />
  <opc:Field Name="ExtensionFields" TypeName="tns:KeyValuePair" LengthField="NoOfExtensionFields" />
  <opc:Field Name="DataSetSource" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedDataSetSourceDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="PublishedVariableDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="PublishedVariable" TypeName="ua:NodeId" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="SamplingIntervalHint" TypeName="opc:Double" />
  <opc:Field Name="DeadbandType" TypeName="opc:UInt32" />
  <opc:Field Name="DeadbandValue" TypeName="opc:Double" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
  <opc:Field Name="SubstituteValue" TypeName="ua:Variant" />
  <opc:Field Name="NoOfMetaDataProperties" TypeName="opc:Int32" />
  <opc:Field Name="MetaDataProperties" TypeName="ua:QualifiedName" LengthField="NoOfMetaDataProperties" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedDataItemsDataType" BaseType="tns:PublishedDataSetSourceDataType">
  <opc:Field Name="NoOfPublishedData" TypeName="opc:Int32" />
  <opc:Field Name="PublishedData" TypeName="tns:PublishedVariableDataType" LengthField="NoOfPublishedData" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedEventsDataType" BaseType="tns:PublishedDataSetSourceDataType">
  <opc:Field Name="EventNotifier" TypeName="ua:NodeId" />
  <opc:Field Name="NoOfSelectedFields" TypeName="opc:Int32" />
  <opc:Field Name="SelectedFields" TypeName="tns:SimpleAttributeOperand" LengthField="NoOfSelectedFields" />
  <opc:Field Name="Filter" TypeName="tns:ContentFilter" />
</opc:StructuredType>

<opc:EnumeratedType Name="DataSetFieldContentMask" LengthInBits="32" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="StatusCode" Value="1" />
  <opc:EnumeratedValue Name="SourceTimestamp" Value="2" />
  <opc:EnumeratedValue Name="ServerTimestamp" Value="4" />
  <opc:EnumeratedValue Name="SourcePicoSeconds" Value="8" />
  <opc:EnumeratedValue Name="ServerPicoSeconds" Value="16" />
</opc:EnumeratedType>
<opc:StructuredType Name="ReaderGroupDataType" BaseType="tns:PubSubGroupDataType">
  <opc:Field Name="Name" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="Enabled" TypeName="opc:Boolean" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="SecurityGroupId" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" LengthField="NoOfSecurityKeyServices" />
  <opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription" />
  <opc:Field Name="MaxNetworkMessageSize" TypeName="opc:UInt32" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="NoOfGroupProperties" TypeName="opc:Int32" />
  <opc:Field Name="GroupProperties" TypeName="tns:KeyValuePair" LengthField="NoOfGroupProperties" />
  <opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
  <opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" />
  <opc:Field Name="NoOfDataSetReaders" TypeName="opc:Int32" />
  <opc:Field Name="DataSetReaders" TypeName="tns:DataSetReaderDataType" LengthField="NoOfDataSetReaders" />
</opc:StructuredType>

<opc:StructuredType Name="ReaderGroupTransportDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="ReaderGroupMessageDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataSetReaderDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="Enabled" TypeName="opc:Boolean" />
  <opc:Field Name="PublisherId" TypeName="ua:Variant" />
  <opc:Field Name="WriterGroupId" TypeName="opc:UInt16" />
  <opc:Field Name="DataSetWriterId" TypeName="opc:UInt16" />
  <opc:Field Name="DataSetMetaData" TypeName="tns:DataSetMetaDataType" />
  <opc:Field Name="DataSetFieldContentMask" TypeName="tns:DataSetFieldContentMask" />
  <opc:Field Name="MessageReceiveTimeout" TypeName="opc:Double" />
  <opc:Field Name="KeyFrameCount" TypeName="opc:UInt32" />
  <opc:Field Name="HeaderLayoutUri" TypeName="opc:String" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
  <opc:Field Name="SecurityGroupId" TypeName="opc:String" />
  <opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" />
  <opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription" LengthField="NoOfSecurityKeyServices" />
  <opc:Field Name="NoOfDataSetReaderProperties" TypeName="opc:Int32" />
  <opc:Field Name="DataSetReaderProperties" TypeName="tns:KeyValuePair" LengthField="NoOfDataSetReaderProperties" />
  <opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
</opc:StructuredType>
<opc:StructuredType Name="DataSetOrderingType" LengthInBits="32">
  <opc:EnumeratedValue Name="Undefined" Value="0" />
  <opc:EnumeratedValue Name="AscendingWriterId" Value="1" />
  <opc:EnumeratedValue Name="AscendingWriterIdSingle" Value="2" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="UadpNetworkMessageContentMask" LengthInBits="32" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="PublisherId" Value="1" />
  <opc:EnumeratedValue Name="GroupHeader" Value="2" />
  <opc:EnumeratedValue Name="WriterGroupId" Value="4" />
  <opc:EnumeratedValue Name="GroupVersion" Value="8" />
  <opc:EnumeratedValue Name="NetworkMessageNumber" Value="16" />
  <opc:EnumeratedValue Name="SequenceNumber" Value="32" />
  <opc:EnumeratedValue Name="PayloadHeader" Value="64" />
  <opc:EnumeratedValue Name="Timestamp" Value="128" />
  <opc:EnumeratedValue Name="PicoSeconds" Value="256" />
  <opc:EnumeratedValue Name="DataSetClassId" Value="512" />
  <opc:EnumeratedValue Name="PromotedFields" Value="1024" />
</opc:EnumeratedType>

<opc:StructuredType Name="UadpDataSetMessageContentMask" BaseType="tns:DataSetMessageDataType">
  <opc:Field Name="GroupVersion" TypeName="opc:UInt32" />
  <opc:Field Name="DataSetOrdering" TypeName="tns:DataSetOrderingType" />
  <opc:Field Name="NetworkMessageContentMask" TypeName="tns:UadpNetworkMessageContentMask" />
  <opc:Field Name="SamplingOffset" TypeName="opc:Double" />
  <opc:Field Name="NoOfPublishingOffset" TypeName="opc:Int32" />
  <opc:Field Name="PublishingOffset" TypeName="opc:Double" LengthField="NoOfPublishingOffset" />
</opc:StructuredType>

<opc:EnumeratedType Name="UadpDataSetMessageContentMask" LengthInBits="32" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="Timestamp" Value="1" />
  <opc:EnumeratedValue Name="PicoSeconds" Value="2" />
  <opc:EnumeratedValue Name="Status" Value="4" />
  <opc:EnumeratedValue Name="MajorVersion" Value="8" />
  <opc:EnumeratedValue Name="MinorVersion" Value="16" />
  <opc:EnumeratedValue Name="SequenceNumber" Value="32" />
</opc:EnumeratedType>

<opc:StructuredType Name="UadpDataSetWriterMessageDataType" BaseType="tns:DataSetWriterMessageDataType">
  <opc:Field Name="DataSetMessageContentMask" TypeName="tns:UadpDataSetMessageContentMask" />
</opc:StructuredType>
<opc:Field Name="ConfiguredSize" TypeName="opc:UInt16" /> 
<opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" /> 
<opc:Field Name="DataSetOffset" TypeName="opc:UInt16" /> 
</opc:StructuredType>

<opc:StructuredType Name="UadpDataSetReaderMessageDataType" 
BaseType="tns:DataSetReaderMessageDataType"> 
<opc:Field Name="GroupVersion" TypeName="opc:UInt32" /> 
<opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" /> 
<opc:Field Name="DataSetOffset" TypeName="opc:UInt16" /> 
<opc:Field Name="DataSetClassId" TypeName="opc:Guid" /> 
<opc:Field Name="NetworkMessageContentMask" TypeName="tns:UadpNetworkMessageContentMask" /> 
<opc:Field Name="DataSetMessageContentMask" TypeName="tns:UadpDataSetMessageContentMask" /> 
<opc:Field Name="PublishingInterval" TypeName="opc:Double" /> 
<opc:Field Name="ReceiveOffset" TypeName="opc:Double" /> 
<opc:Field Name="ProcessingOffset" TypeName="opc:Double" /> 
</opc:StructuredType>

<opc:EnumeratedType Name="JsonNetworkMessageContentMask" LengthInBits="32" IsOptionSet="true"> 
<opc:EnumeratedValue Name="None" Value="0" /> 
<opc:EnumeratedValue Name="NetworkMessageHeader" Value="1" /> 
<opc:EnumeratedValue Name="DataSetMessageHeader" Value="2" /> 
<opc:EnumeratedValue Name="SingleDataSetMessage" Value="4" /> 
<opc:EnumeratedValue Name="PublisherId" Value="8" /> 
<opc:EnumeratedValue Name="DataSetClassId" Value="16" /> 
<opc:EnumeratedValue Name="ReplyTo" Value="32" /> 
</opc:EnumeratedType>

<opc:StructuredType Name="JsonWriterGroupMessageDataType" 
BaseType="tns:WriterGroupMessageDataType"> 
<opc:Field Name="NetworkMessageContentMask" TypeName="tns:JsonNetworkMessageContentMask" /> 
</opc:StructuredType>

<opc:EnumeratedType Name="JsonDataSetMessageContentMask" LengthInBits="32" IsOptionSet="true"> 
<opc:EnumeratedValue Name="None" Value="0" /> 
<opc:EnumeratedValue Name="DataSetWriterId" Value="1" /> 
<opc:EnumeratedValue Name="MetaDataVersion" Value="2" /> 
<opc:EnumeratedValue Name="SequenceNumber" Value="4" /> 
<opc:EnumeratedValue Name="Timestamp" Value="8" /> 
<opc:EnumeratedValue Name="Status" Value="16" /> 
</opc:EnumeratedType>

<opc:StructuredType Name="JsonDataSetWriterMessageDataType" 
BaseType="tns:DataSetWriterMessageDataType"> 
<opc:Field Name="DataSetMessageContentMask" TypeName="tns:JsonDataSetMessageContentMask" /> 
</opc:StructuredType>

<opc:StructuredType Name="JsonDataSetReaderMessageDataType" 
BaseType="tns:DataSetReaderMessageDataType"> 
<opc:Field Name="DataSetMessageContentMask" TypeName="tns:JsonDataSetMessageContentMask" /> 
</opc:StructuredType>
<opc:StructuredType Name="DataSetReaderMessageDataType"
BaseType="tns:DataSetReaderMessageDataType">
    <opc:Field Name="NetworkMessageContentMask" TypeName="tns:JsonNetworkMessageContentMask" />
    <opc:Field Name="DataSetMessageContentMask" TypeName="tns:JsonDataSetMessageContentMask" />
</opc:StructuredType>

<opc:StructuredType Name="DatagramConnectionTransportDataType"
BaseType="tns:ConnectionTransportDataType">
    <opc:Field Name="DiscoveryAddress" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="DatagramWriterGroupTransportDataType"
BaseType="tns:WriterGroupTransportDataType">
    <opc:Field Name="MessageRepeatCount" TypeName="opc:Byte" />
    <opc:Field Name="MessageRepeatDelay" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="BrokerConnectionTransportDataType"
BaseType="tns:ConnectionTransportDataType">
    <opc:Field Name="ResourceUri" TypeName="opc:String" />
    <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="BrokerTransportQualityOfService" LengthInBits="32">
    <opc:EnumeratedValue Name="NotSpecified" Value="0" />
    <opc:EnumeratedValue Name="BestEffort" Value="1" />
    <opc:EnumeratedValue Name="AtLeastOnce" Value="2" />
    <opc:EnumeratedValue Name="AtMostOnce" Value="3" />
    <opc:EnumeratedValue Name="ExactlyOnce" Value="4" />
</opc:EnumeratedType>

<opc:StructuredType Name="BrokerWriterGroupTransportDataType"
BaseType="tns:WriterGroupTransportDataType">
    <opc:Field Name="QueueName" TypeName="opc:String" />
    <opc:Field Name="ResourceUri" TypeName="opc:String" />
    <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
    <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
</opc:StructuredType>

<opc:StructuredType Name="BrokerDataSetWriterTransportDataType"
BaseType="tns:DataSetWriterTransportDataType">
    <opc:Field Name="QueueName" TypeName="opc:String" />
    <opc:Field Name="ResourceUri" TypeName="opc:String" />
    <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
    <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
    <opc:Field Name="MetaDataQueueName" TypeName="opc:String" />
    <opc:Field Name="MetaDataUpdateTime" TypeName="opc:Double" />
</opc:StructuredType>
<opc:StructuredType Name="BrokerDataSetReaderTransportDataType" BaseType="tns:DataSetReaderTransportDataType">
  <opc:Field Name="QueueName" TypeName="opc:String" />
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
  <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
  <opc:Field Name="MetaDataQueueName" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="DiagnosticsLevel" LengthInBits="32">
  <opc:EnumeratedValue Name="Basic" Value="0" />
  <opc:EnumeratedValue Name="Advanced" Value="1" />
  <opc:EnumeratedValue Name="Info" Value="2" />
  <opc:EnumeratedValue Name="Log" Value="3" />
  <opc:EnumeratedValue Name="Debug" Value="4" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="PubSubDiagnosticsCounterClassification" LengthInBits="32">
  <opc:EnumeratedValue Name="Information" Value="0" />
  <opc:EnumeratedValue Name="Error" Value="1" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="IdType" LengthInBits="32">
  <opc:Documentation>The type of identifier used in a node id.</opc:Documentation>
  <opc:EnumeratedValue Name="Numeric" Value="0" />
  <opc:EnumeratedValue Name="String" Value="1" />
  <opc:EnumeratedValue Name="Guid" Value="2" />
  <opc:EnumeratedValue Name="Opaque" Value="3" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="NodeClass" LengthInBits="32">
  <opc:Documentation>A mask specifying the class of the node.</opc:Documentation>
  <opc:EnumeratedValue Name="Unspecified" Value="0" />
  <opc:EnumeratedValue Name="Object" Value="1" />
  <opc:EnumeratedValue Name="Variable" Value="2" />
  <opc:EnumeratedValue Name="Method" Value="4" />
  <opc:EnumeratedValue Name="ObjectType" Value="8" />
  <opc:EnumeratedValue Name="VariableType" Value="16" />
  <opc:EnumeratedValue Name="ReferenceType" Value="32" />
  <opc:EnumeratedValue Name="DataType" Value="64" />
  <opc:EnumeratedValue Name="View" Value="128" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="PermissionType" LengthInBits="32" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="Browse" Value="1" />
  <opc:EnumeratedValue Name="ReadRolePermissions" Value="2" />
  <opc:EnumeratedValue Name="WriteAttribute" Value="4" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="WriteRolePermissions" Value="8" />
<opc:EnumeratedValue Name="WriteHistorizing" Value="16" />
<opc:EnumeratedValue Name="Read" Value="32" />
<opc:EnumeratedValue Name="Write" Value="64" />
<opc:EnumeratedValue Name="ReadHistory" Value="128" />
<opc:EnumeratedValue Name="InsertHistory" Value="256" />
<opc:EnumeratedValue Name="ModifyHistory" Value="512" />
<opc:EnumeratedValue Name="DeleteHistory" Value="1024" />
<opc:EnumeratedValue Name="ReceiveEvents" Value="2048" />
<opc:EnumeratedValue Name="Call" Value="4096" />
<opc:EnumeratedValue Name="AddReference" Value="8192" />
<opc:EnumeratedValue Name="RemoveReference" Value="16384" />
<opc:EnumeratedValue Name="DeleteNode" Value="32768" />
<opc:EnumeratedValue Name="AddNode" Value="65536" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="AccessLevelType" LengthInBits="8" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="CurrentRead" Value="1" />
<opc:EnumeratedValue Name="CurrentWrite" Value="2" />
<opc:EnumeratedValue Name="HistoryRead" Value="4" />
<opc:EnumeratedValue Name="HistoryWrite" Value="8" />
<opc:EnumeratedValue Name="SemanticChange" Value="16" />
<opc:EnumeratedValue Name="StatusWrite" Value="32" />
<opc:EnumeratedValue Name="TimestampWrite" Value="64" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="AccessLevelExType" LengthInBits="32" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="CurrentRead" Value="1" />
<opc:EnumeratedValue Name="CurrentWrite" Value="2" />
<opc:EnumeratedValue Name="HistoryRead" Value="4" />
<opc:EnumeratedValue Name="HistoryWrite" Value="8" />
<opc:EnumeratedValue Name="SemanticChange" Value="16" />
<opc:EnumeratedValue Name="StatusWrite" Value="32" />
<opc:EnumeratedValue Name="NonatomicRead" Value="256" />
<opc:EnumeratedValue Name="NonatomicWrite" Value="512" />
<opc:EnumeratedValue Name="WriteFullArrayOnly" Value="1024" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="EventNotifierType" LengthInBits="8" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="SubscribeToEvents" Value="1" />
<opc:EnumeratedValue Name="HistoryRead" Value="4" />
<opc:EnumeratedValue Name="HistoryWrite" Value="8" />
</opc:EnumeratedType>
<opc:StructuredType Name="RolePermissionType" BaseType="ua:ExtensionObject">
    <opc:Field Name="RoleId" TypeName="ua:NodeId" />
    <opc:Field Name="Permissions" TypeName="tns:PermissionType" />
</opc:StructuredType>

<opc:EnumeratedType Name="StructureType" LengthInBits="32">
    <opc:EnumeratedValue Name="Structure" Value="0" />
    <opc:EnumeratedValue Name="StructureWithOptionalFields" Value="1" />
    <opc:EnumeratedValue Name="Union" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="StructureField" BaseType="ua:ExtensionObject">
    <opc:Field Name="Name" TypeName="opc:String" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" />
    <opc:Field Name="DataType" TypeName="ua:NodeId" />
    <opc:Field Name="ValueRank" TypeName="opc:Int32" />
    <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
    <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
    <opc:Field Name="MaxStringLength" TypeName="opc:UInt32" />
    <opc:Field Name="IsOptional" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="StructureDefinition" BaseType="tns:DataTypeDefinition">
    <opc:Field Name="DefaultEncodingId" TypeName="ua:NodeId" />
    <opc:Field Name="BaseDataType" TypeName="ua:NodeId" />
    <opc:Field Name="StructureType" TypeName="tns:StructureType" />
    <opc:Field Name="NoOfFields" TypeName="opc:Int32" />
    <opc:Field Name="Fields" TypeName="tns:StructureField" LengthField="NoOfFields" />
</opc:StructuredType>

<opc:StructuredType Name="EnumDefinition" BaseType="tns:DataTypeDefinition">
    <opc:Field Name="NoOfFields" TypeName="opc:Int32" />
    <opc:Field Name="Fields" TypeName="tns:EnumField" LengthField="NoOfFields" />
</opc:StructuredType>

<opc:StructuredType Name="Node" BaseType="ua:ExtensionObject">
    <opc:Documentation>Specifies the attributes which belong to all nodes.</opc:Documentation>
    <opc:Field Name="NodeId" TypeName="ua:NodeId" />
    <opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
    <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
    <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" />
    <opc:Field Name="WriteMask" TypeName="opc:UInt32" />
    <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" />
    <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
    <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
    <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:StructuredType Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
</opc:StructuredType>

<opc:StructuredType Name="InstanceNode" BaseType="tns:Node">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
</opc:StructuredType>

<opc:StructuredType Name="TypeNode" BaseType="tns:Node">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
</opc:StructuredType>

<opc:StructuredType Name="ObjectNode" BaseType="tns:InstanceNode">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
</opc:StructuredType>
<opc:StructuredType Name="ObjectTypeDef" BaseType="tns:TypeNode">
  <opc:Documentation>Specifies the attributes which belong to object type nodes.</opc:Documentation>
</opc:StructuredType>

<opc:StructuredType Name="VariableTypeDef" BaseType="tns:InstanceNode">
  <opc:Documentation>Specifies the attributes which belong to variable nodes.</opc:Documentation>
</opc:StructuredType>
<opc:Documentation>Specifies the attributes which belong to reference type nodes.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
<opc:Field Name="Symmetric" TypeName="opc:Boolean" />
<opc:Field Name="InverseName" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="MethodNode" BaseType="tns:InstanceNode">
  <opc:Documentation>Specifies the attributes which belong to method nodes.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="Executable" TypeName="opc:Boolean" />
  <opc:Field Name="UserExecutable" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ViewNode" BaseType="tns:InstanceNode">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
</opc:StructuredType>
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="ContainsNoLoops" TypeName="opc:Boolean" />
<opc:Field Name="EventNotifier" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="DataTypeNode" BaseType="tns:TypeNode">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
<opc:Field Name="DataTypeDefinition" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="ReferenceNode" BaseType="ua:ExtensionObject">
<opc:Documentation>Specifies a reference which belongs to a node.</opc:Documentation>
<opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
<opc:Field Name="IsInverse" TypeName="opc:Boolean" />
<opc:Field Name="TargetId" TypeName="ua:ExpandedNodeId" />
</opc:StructuredType>

<opc:StructuredType Name="Argument" BaseType="ua:ExtensionObject">
<opc:Documentation>An argument for a method.</opc:Documentation>
<opc:Field Name="Name" TypeName="opc:String" />
</opc:StructuredType>
<opc:Field Name="DataType" TypeName="ua:NodeId" />
<opc:Field Name="ValueRank" TypeName="opc:Int32" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
<opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="EnumValueType" BaseType="ua:ExtensionObject">
  <opc:Documentation>A mapping between a value of an enumerated type and a name and
description.</opc:Documentation>
  <opc:Field Name="Value" TypeName="opc:Int64" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="EnumField" BaseType="tns:EnumValueType">
  <opc:Field Name="Value" TypeName="opc:Int64" SourceType="tns:EnumValueType" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:EnumValueType" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:EnumValueType" />
  <opc:Field Name="Name" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="OptionSet" BaseType="ua:ExtensionObject">
  <opc:Documentation>This abstract Structured DataType is the base DataType for all DataTypes representing a bit
mask.</opc:Documentation>
  <opc:Field Name="Value" TypeName="opc:ByteString" />
  <opc:Field Name="ValidBits" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="Union" BaseType="ua:ExtensionObject">
  <opc:Documentation>This abstract DataType is the base DataType for all union
DataTypes.</opc:Documentation>
</opc:StructuredType>

<opc:OpaqueType Name="NormalizedString">
  <opc:Documentation>A string normalized based on the rules in the unicode specification.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DecimalString">
  <opc:Documentation>An arbitrary numeric value.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DurationString">
  <opc:Documentation>A period of time formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="TimeString">
  <opc:Documentation>A time formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>
<opc:OpaqueType>

<opc:OpaqueType Name="DateString">
  <opc:Documentation>A date formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Duration">
  <opc:Documentation>A period of time measured in milliseconds.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="UtcTime">
  <opc:Documentation>A date/time value specified in Universal Coordinated Time (UTC).</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="LocaleId">
  <opc:Documentation>An identifier for a user locale.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="TimeZoneDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Offset" TypeName="opc:Int16" />
  <opc:Field Name="DaylightSavingInOffset" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:OpaqueType Name="Index">
  <opc:Documentation>This primitive data type is a UInt32 that identifies an element of an array.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="IntegerId">
  <opc:Documentation>A numeric identifier for an object.</opc:Documentation>
</opc:OpaqueType>

<opc:EnumeratedType Name="ApplicationType" LengthInBits="32">
  <opc:Documentation>The types of applications.</opc:Documentation>
  <opc:EnumeratedValue Name="Server" Value="0" />
  <opc:EnumeratedValue Name="Client" Value="1" />
  <opc:EnumeratedValue Name="ClientAndServer" Value="2" />
  <opc:EnumeratedValue Name="DiscoveryServer" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="ApplicationDescription" BaseType="ua:ExtensionObject">
  <opc:Documentation>Describes an application and how to find it.</opc:Documentation>
  <opc:Field Name="ApplicationUri" TypeName="opc:String" />
  <opc:Field Name="ProductUri" TypeName="opc:String" />
  <opc:Field Name="ApplicationName" TypeName="ua:LocalizedText" />
  <opc:Field Name="ApplicationType" TypeName="tns:ApplicationType" />
  <opc:Field Name="GatewayServerUri" TypeName="opc:String" />
  <opc:Field Name="DiscoveryProfileUri" TypeName="opc:String" />
</opc:StructuredType>
<opc:StructuredType Name="RequestHeader" BaseType="ua:ExtensionObject">
  <opc:Documentation>The header passed with every server request.</opc:Documentation>
  <opc:Field Name="AuthenticationToken" TypeName="ua:NodeId" />
  <opc:Field Name="Timestamp" TypeName="opc:DateTime" />
  <opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
  <opc:Field Name="ReturnDiagnostics" TypeName="opc:UInt32" />
  <opc:Field Name="AuditEntryId" TypeName="opc:String" />
  <opc:Field Name="TimeoutHint" TypeName="opc:UInt32" />
  <opc:Field Name="AdditionalHeader" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="ResponseHeader" BaseType="ua:ExtensionObject">
  <opc:Documentation>The header passed with every server response.</opc:Documentation>
  <opc:Field Name="Timestamp" TypeName="opc:DateTime" />
  <opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
  <opc:Field Name="ServiceResult" TypeName="ua:StatusCode" />
  <opc:Field Name="ServiceDiagnostics" TypeName="ua:DiagnosticInfo" />
  <opc:Field Name="NoOfStringTable" TypeName="opc:Int32" />
  <opc:Field Name="StringTable" TypeName="opc:String" LengthField="NoOfStringTable" />
  <opc:Field Name="AdditionalHeader" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:OpaqueType Name="VersionTime">
</opc:OpaqueType>

<opc:StructuredType Name="ServiceFault" BaseType="ua:ExtensionObject">
  <opc:Documentation>The response returned by all services when there is a service level error.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="SessionlessInvokeRequestType" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfUrisVersion" TypeName="opc:Int32" />
  <opc:Field Name="UrisVersion" TypeName="opc:UInt32" LengthField="NoOfUrisVersion" />
  <opc:Field Name="NoOfNamespaceUris" TypeName="opc:Int32" />
  <opc:Field Name="NamespaceUris" TypeName="opc:String" LengthField="NoOfNamespaceUris" />
  <opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
  <opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
  <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
  <opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
  <opc:Field Name="ServiceId" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SessionlessInvokeResponseType" BaseType="ua:ExtensionObject">
</opc:StructuredType>
<opc:StructuredType Name="FindServersRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Finds the servers known to the discovery server.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
  <opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
  <opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
  <opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Finds the servers known to the discovery server.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfServers" TypeName="opc:Int32" />
  <opc:Field Name="Servers" TypeName="tns:ApplicationDescription" LengthField="NoOfServers" />
</opc:StructuredType>

<opc:StructuredType Name="ServerOnNetwork" BaseType="ua:ExtensionObject">
  <opc:Field Name="RecordId" TypeName="opc:UInt32" />
  <opc:Field Name="ServerName" TypeName="opc:String" />
  <opc:Field Name="DiscoveryUrl" TypeName="opc:String" />
  <opc:Field Name="NoOfServerCapabilities" TypeName="opc:Int32" />
  <opc:Field Name="ServerCapabilities" TypeName="opc:String" LengthField="NoOfServerCapabilities" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersOnNetworkRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="StartingRecordId" TypeName="opc:UInt32" />
  <opc:Field Name="MaxRecordsToReturn" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfServerCapabilityFilter" TypeName="opc:Int32" />
  <opc:Field Name="ServerCapabilityFilter" TypeName="opc:String" LengthField="NoOfServerCapabilityFilter" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersOnNetworkResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="LastCounterResetTime" TypeName="opc:DateTime" />
  <opc:Field Name="NoOfServers" TypeName="opc:Int32" />
  <opc:Field Name="Servers" TypeName="tns:ServerOnNetwork" LengthField="NoOfServers" />
</opc:StructuredType>
<opc:OpaqueType Name="ApplicationInstanceCertificate">
  <opc:Documentation>A certificate for an instance of an application.</opc:Documentation>
</opc:OpaqueType>

<opc:EnumeratedType Name="MessageSecurityMode" LengthInBits="32">
  <opc:Documentation>The type of security to use on a message.</opc:Documentation>
  <opc:EnumeratedValue Name="Invalid" Value="0" />
  <opc:EnumeratedValue Name="None" Value="1" />
  <opc:EnumeratedValue Name="Sign" Value="2" />
  <opc:EnumeratedValue Name="SignAndEncrypt" Value="3" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="UserTokenType" LengthInBits="32">
  <opc:Documentation>The possible user token types.</opc:Documentation>
  <opc:EnumeratedValue Name="Anonymous" Value="0" />
  <opc:EnumeratedValue Name="UserName" Value="1" />
  <opc:EnumeratedValue Name="Certificate" Value="2" />
  <opc:EnumeratedValue Name="IssuedToken" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="UserTokenPolicy" BaseType="ua:ExtensionObject">
  <opc:Documentation>Describes a user token that can be used with a server.</opc:Documentation>
  <opc:Field Name="PolicyId" TypeName="opc:String" />
  <opc:Field Name="TokenType" TypeName="tns:UserTokenType" />
  <opc:Field Name="IssuedTokenType" TypeName="opc:String" />
  <opc:Field Name="IssuerEndpointUrl" TypeName="opc:String" />
  <opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="EndpointDescription" BaseType="ua:ExtensionObject">
  <opc:Documentation>The description of an endpoint that can be used to access a server.</opc:Documentation>
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="Server" TypeName="tns:ApplicationDescription" />
  <opc:Field Name="ServerCertificate" TypeName="opc:ByteString" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
  <opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
  <opc:Field Name="NoOfUserIdentityTokens" TypeName="opc:Int32" />
  <opc:Field Name="UserIdentityTokens" TypeName="tns:UserTokenPolicy" LengthField="NoOfUserIdentityTokens" />
  <opc:Field Name="TransportProfileUri" TypeName="opc:String" />
  <opc:Field Name="SecurityLevel" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="GetEndpointsRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Gets the endpoints used by the server.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="NoOfProfileUris" TypeName="opc:Int32" />
<opc:Field Name="ProfileUris" TypeName="opc:String" LengthField="NoOfProfileUris" />
</opc:StructuredType>

<opc:StructuredType Name="GetEndpointsResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Gets the endpoints used by the server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfEndpoints" TypeName="opc:Int32" />
<opc:Field Name="Endpoints" TypeName="tns:EndpointDescription" LengthField="NoOfEndpoints" />
</opc:StructuredType>

<opc:StructuredType Name="RegisteredServer" BaseType="ua:ExtensionObject">
<opc:Documentation>The information required to register a server with a discovery server.</opc:Documentation>
<opc:Field Name="ServerUri" TypeName="opc:String" />
<opc:Field Name="ProductUri" TypeName="opc:String" />
<opc:Field Name="NoOfServerNames" TypeName="opc:Int32" />
<opc:Field Name="ServerNames" TypeName="ua:LocalizedText" LengthField="NoOfServerNames" />
<opc:Field Name="ServerType" TypeName="tns:ApplicationType" />
<opc:Field Name="GatewayServerUri" TypeName="opc:String" />
<opc:Field Name="NoOfDiscoveryUrls" TypeName="opc:Int32" />
<opc:Field Name="DiscoveryUrls" TypeName="opc:String" LengthField="NoOfDiscoveryUrls" />
<opc:Field Name="SemaphoreFilePath" TypeName="opc:String" />
<opc:Field Name="IsOnline" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServerRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers a server with the discovery server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="Server" TypeName="tns:RegisteredServer" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServerResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers a server with the discovery server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="DiscoveryConfiguration" BaseType="ua:ExtensionObject">
<opc:Documentation>A base type for discovery configuration information.</opc:Documentation>
</opc:StructuredType>

<opc:StructuredType Name="MdnsDiscoveryConfiguration" BaseType="tns:DiscoveryConfiguration">
<opc:Documentation>The discovery information needed for mDNS registration.</opc:Documentation>
<opc:Field Name="MdnsServerName" TypeName="opc:String" />
<opc:Field Name="NoOfServerCapabilities" TypeName="opc:Int32" />
<opc:Field Name="ServerCapabilities" TypeName="opc:String" LengthField="NoOfServerCapabilities" />
</opc:StructuredType>
<opc:StructuredType Name="RegisterServer2Request" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="Server" TypeName="tns:RegisteredServer" />
  <opc:Field Name="NoOfDiscoveryConfiguration" TypeName="opc:Int32" />
  <opc:Field Name="DiscoveryConfiguration" TypeName="ua:ExtensionObject" LengthField="NoOfDiscoveryConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServer2Response" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfConfigurationResults" TypeName="opc:Int32" />
  <opc:Field Name="ConfigurationResults" TypeName="ua:StatusCode" LengthField="NoOfConfigurationResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:EnumeratedType Name="SecurityTokenRequestType" LengthInBits="32">
  <opc:Documentation>Indicates whether a token if being created or renewed.</opc:Documentation>
  <opc:EnumeratedValue Name="Issue" Value="0" />
  <opc:EnumeratedValue Name="Renew" Value="1" />
</opc:EnumeratedType>

<opc:StructuredType Name="ChannelSecurityToken" BaseType="ua:ExtensionObject">
  <opc:Documentation>The token that identifies a set of keys for an active secure channel.</opc:Documentation>
  <opc:Field Name="ChannelId" TypeName="opc:UInt32" />
  <opc:Field Name="TokenId" TypeName="opc:UInt32" />
  <opc:Field Name="CreatedAt" TypeName="opc:DateTime" />
  <opc:Field Name="RevisedLifetime" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="OpenSecureChannelRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Creates a secure channel with a server.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="ClientProtocolVersion" TypeName="opc:UInt32" />
  <opc:Field Name="RequestType" TypeName="tns:SecurityTokenRequestType" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
  <opc:Field Name="ClientNonce" TypeName="opc:ByteString" />
  <opc:Field Name="RequestedLifetime" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="OpenSecureChannelResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Creates a secure channel with a server.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="ServerProtocolVersion" TypeName="opc:UInt32" />
  <opc:Field Name="SecurityToken" TypeName="tns:ChannelSecurityToken" />
  <opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
</opc:StructuredType>
<opc:StructuredType Name="CloseSecureChannelRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Closes a secure channel.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSecureChannelResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Closes a secure channel.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="SignedSoftwareCertificate" BaseType="ua:ExtensionObject">
  <opc:Documentation>A software certificate with a digital signature.</opc:Documentation>
  <opc:Field Name="CertificateData" TypeName="opc:ByteString" />
  <opc:Field Name="Signature" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:OpaqueType Name="SessionAuthenticationToken">
  <opc:Documentation>A unique identifier for a session used to authenticate requests.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="SignatureData" BaseType="ua:ExtensionObject">
  <opc:Documentation>A digital signature.</opc:Documentation>
  <opc:Field Name="Algorithm" TypeName="opc:String" />
  <opc:Field Name="Signature" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSessionRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Creates a new session with the server.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="ClientDescription" TypeName="tns:ApplicationDescription" />
  <opc:Field Name="ServerUri" TypeName="opc:String" />
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="SessionName" TypeName="opc:String" />
  <opc:Field Name="ClientNonce" TypeName="opc:ByteString" />
  <opc:Field Name="ClientCertificate" TypeName="opc:ByteString" />
  <opc:Field Name="RequestedSessionTimeout" TypeName="opc:Double" />
  <opc:Field Name="MaxResponseMessageSize" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSessionResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Creates a new session with the server.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="SessionId" TypeName="ua:NodeId" />
  <opc:Field Name="AuthenticationToken" TypeName="ua:NodeId" />
  <opc:Field Name="RevisedSessionTimeout" TypeName="opc:Double" />
  <opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
  <opc:Field Name="ServerCertificate" TypeName="opc:ByteString" />
</opc:StructuredType>
<opc:Field Name="NoOfServerEndpoints" TypeName="opc:Int32" />
<opc:Field Name="ServerEndpoints" TypeName="tns:EndpointDescription"
LengthField="NoOfServerEndpoints" />
<opc:Field Name="NoOfServerSoftwareCertificates" TypeName="opc:Int32" />
<opc:Field Name="ServerSoftwareCertificates" TypeName="tns:SignedSoftwareCertificate"
LengthField="NoOfServerSoftwareCertificates" />
<opc:Field Name="ServerSignature" TypeName="tns:SignatureData" />
<opc:Field Name="MaxRequestMessageSize" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="UserIdentityToken" BaseType="ua:ExtensionObject">
<opc:Documentation>A base type for a user identity token.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="AnonymousIdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing an anonymous user.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
</opc:StructuredType>

<opc:StructuredType Name="UserNameIdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing a user identified by a user name and password.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
<opc:Field Name="UserName" TypeName="opc:String" />
<opc:Field Name="Password" TypeName="opc:ByteString" />
<opc:Field Name="EncryptionAlgorithm" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="X509IdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing a user identified by an X509 certificate.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
<opc:Field Name="CertificateData" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="IssuedIdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing a user identified by a WS-Security XML token.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
<opc:Field Name="TokenData" TypeName="opc:ByteString" />
<opc:Field Name="EncryptionAlgorithm" TypeName="opc:String" />
</opc:StructuredType>

<opc:OpaqueType Name="RsaEncryptedSecret" />
<opc:OpaqueType>

<opc:OpaqueType Name="EccEncryptedSecret" />
<opc:OpaqueType>

<opc:StructuredType Name="ActivateSessionRequest" BaseType="ua:ExtensionObject"/>
<opc:Documentation>Activates a session with the server. </opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="ClientSignature" TypeName="tns:SignatureData" />
<opc:Field Name="NoOfClientSoftwareCertificates" TypeName="opc:Int32" />
<opc:Field Name="ClientSoftwareCertificates" TypeName="tns:SignedSoftwareCertificate" LengthField="NoOfClientSoftwareCertificates" />
<opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="UserIdentityToken" TypeName="ua:ExtensionObject" />
<opc:Field Name="UserTokenSignature" TypeName="tns:SignatureData" />
</opc:StructuredType>

<opc:StructuredType Name="ActivateSessionResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Activates a session with the server. </opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSessionRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Closes a session with the server. </opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="DeleteSubscriptions" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSessionResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Closes a session with the server. </opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="CancelRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Cancels an outstanding request. </opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="CancelResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Cancels an outstanding request. </opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="CancelCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:EnumeratedType Name="NodeAttributesMask" LengthInBits="32">
<opc:Documentation>The bits used to specify default attributes for a new node. </opc:Documentation>
<opc:EnumeratedValue Name="None" Value="0" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="AccessLevel" Value="1" />
<opc:EnumeratedValue Name="ArrayDimensions" Value="2" />
<opc:EnumeratedValue Name="BrowseName" Value="4" />
<opc:EnumeratedValue Name="ContainsNoLoops" Value="8" />
<opc:EnumeratedValue Name="DataType" Value="16" />
<opc:EnumeratedValue Name="Description" Value="32" />
<opc:EnumeratedValue Name="DisplayName" Value="64" />
<opc:EnumeratedValue Name="EventNotifier" Value="128" />
<opc:EnumeratedValue Name="Executable" Value="256" />
<opc:EnumeratedValue Name="Historizing" Value="512" />
<opc:EnumeratedValue Name="InverseName" Value="1024" />
<opc:EnumeratedValue Name="IsAbstract" Value="2048" />
<opc:EnumeratedValue Name="MinimumSamplingInterval" Value="4096" />
<opc:EnumeratedValue Name="NodeClass" Value="8192" />
<opc:EnumeratedValue Name="NodeId" Value="16384" />
<opc:EnumeratedValue Name="Symmetric" Value="32768" />
<opc:EnumeratedValue Name="UserAccessLevel" Value="65536" />
<opc:EnumeratedValue Name="UserExecutable" Value="131072" />
<opc:EnumeratedValue Name="UserWriteMask" Value="262144" />
<opc:EnumeratedValue Name="ValueRank" Value="524288" />
<opc:EnumeratedValue Name="WriteMask" Value="1048576" />
<opc:EnumeratedValue Name="Value" Value="2097152" />
<opc:EnumeratedValue Name="DataTypeDefinition" Value="4194304" />
<opc:EnumeratedValue Name="RolePermissions" Value="8388608" />
<opc:EnumeratedValue Name="AccessRestrictions" Value="16777216" />
<opc:EnumeratedValue Name="All" Value="33554431" />
<opc:EnumeratedValue Name="BaseNode" Value="26501220" />
<opc:EnumeratedValue Name="Object" Value="26501348" />
<opc:EnumeratedValue Name="ObjectType" Value="26503268" />
<opc:EnumeratedValue Name="Variable" Value="26571383" />
<opc:EnumeratedValue Name="VariableType" Value="28600438" />
<opc:EnumeratedValue Name="Method" Value="26632548" />
<opc:EnumeratedValue Name="ReferenceType" Value="26537060" />
<opc:EnumeratedValue Name="View" Value="26501356" />
</opc:EnumeratedType>

<opc:StructuredType Name="NodeAttributes" BaseType="ua:ExtensionObject">
<opc:Documentation>The base attributes for all nodes.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ObjectAttributes" BaseType="tns:NodeAttributes">
<opc:Documentation>The attributes for an object node.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
</opc:StructuredType>
<opc:StructuredType Name="VariableAttributes" BaseType="tns:NodeAttributes">
    <opc:Documentation>The attributes for a variable node.</opc:Documentation>
    <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="Value" TypeName="ua:Variant" />
    <opc:Field Name="DataType" TypeName="ua:NodeId" />
    <opc:Field Name="ValueRank" TypeName="opc:Int32" />
    <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
    <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
    <opc:Field Name="AccessLevel" TypeName="opc:Byte" />
    <opc:Field Name="UserAccessLevel" TypeName="opc:Byte" />
    <opc:Field Name="MinimumSamplingInterval" TypeName="opc:Double" />
    <opc:Field Name="Historizing" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="MethodAttributes" BaseType="tns:NodeAttributes">
    <opc:Documentation>The attributes for a method node.</opc:Documentation>
    <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="Executable" TypeName="opc:Boolean" />
    <opc:Field Name="UserExecutable" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ObjectTypeAttributes" BaseType="tns:NodeAttributes">
    <opc:Documentation>The attributes for an object type node.</opc:Documentation>
    <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="VariableTypeAttributes" BaseType="tns:NodeAttributes">
    <opc:Documentation>The attributes for a variable type node.</opc:Documentation>
    <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>
<opc:StructuredType Name="ReferenceTypeAttributes" BaseType="tns:NodeAttributes">  
<opc:Documentation>The attributes for a reference type node.</opc:Documentation>  
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />  
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />  
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />  
<opc:Field Name="Symmetric" TypeName="opc:Boolean" />  
<opc:Field Name="InverseName" TypeName="ua:LocalizedText" />  
</opc:StructuredType>  

<opc:StructuredType Name="DataTypeAttributes" BaseType="tns:NodeAttributes">  
<opc:Documentation>The attributes for a data type node.</opc:Documentation>  
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />  
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />  
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />  
</opc:StructuredType>  

<opc:StructuredType Name="ViewAttributes" BaseType="tns:NodeAttributes">  
<opc:Documentation>The attributes for a view node.</opc:Documentation>  
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />  
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />  
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
<opc:Field Name="ContainsNoLoops" TypeName="opc:Boolean" />  
<opc:Field Name="EventNotifier" TypeName="opc:Byte" />  
</opc:StructuredType>  

<opc:StructuredType Name="GenericAttributeValue" BaseType="ua:ExtensionObject">  
<opc:Field Name="AttributeId" TypeName="opc:UInt32" />  
</opc:StructuredType>
<opc:StructuredType Name="AddReferencesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more references to the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfReferencesToAdd" TypeName="opc:Int32" LengthField="NoOfReferencesToAdd" />
  <opc:Field Name="ReferencesToAdd" TypeName="tns:AddReferencesItem" />
</opc:StructuredType>

<opc:StructuredType Name="AddReferencesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more references to the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesItem" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to delete a node to the server address space.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="DeleteTargetReferences" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Delete one or more nodes from the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfNodesToDelete" TypeName="opc:Int32" />
  <opc:Field Name="NodesToDelete" TypeName="tns:DeleteNodesItem" LengthField="NoOfNodesToDelete" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Delete one or more nodes from the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>
<opc:StructuredType Name="DeleteReferencesItem" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to delete a node from the server address space.</opc:Documentation>
  <opc:Field Name="SourceNodeId" TypeName="ua:NodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />
  <opc:Field Name="TargetNodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="DeleteBidirectional" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Delete one or more references from the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfReferencesToDelete" TypeName="opc:Int32" LengthField="NoOfReferencesToDelete" />
  <opc:Field Name="ReferencesToDelete" TypeName="tns:DeleteReferencesItem" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Delete one or more references from the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" LengthField="NoOfResults" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:EnumeratedType Name="AttributeWriteMask" LengthInBits="32" IsOptionSet="true">
  <opc:Documentation>Define bits used to indicate which attributes are writable.</opc:Documentation>
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="AccessLevel" Value="1" />
  <opc:EnumeratedValue Name="ArrayDimensions" Value="2" />
  <opc:EnumeratedValue Name="BrowseName" Value="4" />
  <opc:EnumeratedValue Name="ContainsNoLoops" Value="8" />
  <opc:EnumeratedValue Name="DataType" Value="16" />
  <opc:EnumeratedValue Name="Description" Value="32" />
  <opc:EnumeratedValue Name="DisplayName" Value="64" />
  <opc:EnumeratedValue Name="EventNotifier" Value="128" />
  <opc:EnumeratedValue Name="Executable" Value="256" />
  <opc:EnumeratedValue Name="Historizing" Value="512" />
  <opc:EnumeratedValue Name="InverseName" Value="1024" />
  <opc:EnumeratedValue Name="IsAbstract" Value="2048" />
  <opc:EnumeratedValue Name="MinimumSamplingInterval" Value="4096" />
  <opc:EnumeratedValue Name="NodeClass" Value="8192" />
  <opc:EnumeratedValue Name="NodeId" Value="16384" />
  <opc:EnumeratedValue Name="Symmetric" Value="32768" />
  <opc:EnumeratedValue Name="UserAccessLevel" Value="65536" />
  <opc:EnumeratedValue Name="UserExecutable" Value="131072" />
  <opc:EnumeratedValue Name="UserWriteMask" Value="262144" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="ValueRank" Value="524288" />
<opc:EnumeratedValue Name="WriteMask" Value="1048576" />
<opc:EnumeratedValue Name="ValueForVariableType" Value="2097152" />
<opc:EnumeratedValue Name="DataTypeDefinition" Value="4194304" />
<opc:EnumeratedValue Name="RolePermissions" Value="8388608" />
<opc:EnumeratedValue Name="AccessRestrictions" Value="16777216" />
<opc:EnumeratedValue Name="AccessLevelEx" Value="33554432" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="BrowseDirection" LengthInBits="32">
<opc:Documentation>The directions of the references to return.</opc:Documentation>
<opc:EnumeratedValue Name="Forward" Value="0" />
<opc:EnumeratedValue Name="Inverse" Value="1" />
<opc:EnumeratedValue Name="Both" Value="2" />
<opc:EnumeratedValue Name="Invalid" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="ViewDescription" BaseType="ua:ExtensionObject">
<opc:Documentation>The view to browse.</opc:Documentation>
<opc:Field Name="ViewId" TypeName="ua:NodeId" />
<opc:Field Name="Timestamp" TypeName="opc:DateTime" />
<opc:Field Name="ViewVersion" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseDescription" BaseType="ua:ExtensionObject">
<opc:Documentation>A request to browse the the references from a node.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" />
<opc:Field Name="BrowseDirection" TypeName="tns:BrowseDirection" />
<opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
<opc:Field Name="IncludeSubtypes" TypeName="opc:Boolean" />
<opc:Field Name="NodeClassMask" TypeName="opc:UInt32" />
<opc:Field Name="ResultMask" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:EnumeratedType Name="BrowseResultMask" LengthInBits="32">
<opc:Documentation>A bit mask which specifies what should be returned in a browse response.</opc:Documentation>
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="ReferenceTypeId" Value="1" />
<opc:EnumeratedValue Name="IsForward" Value="2" />
<opc:EnumeratedValue Name="NodeClass" Value="4" />
<opc:EnumeratedValue Name="BrowseName" Value="8" />
<opc:EnumeratedValue Name="DisplayName" Value="16" />
<opc:EnumeratedValue Name="TypeDefinition" Value="32" />
<opc:EnumeratedValue Name="All" Value="63" />
<opc:EnumeratedValue Name="ReferenceTypeInfo" Value="3" />
<opc:EnumeratedValue Name="TargetInfo" Value="60" />
</opc:EnumeratedType>
<opc:Field Name="ReleaseContinuationPoints" TypeName="opc:Boolean" />
<opc:Field Name="NoOfContinuationPoints" TypeName="opc:Int32" />
<opc:Field Name="ContinuationPoints" TypeName="opc:ByteString" LengthField="NoOfContinuationPoints" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseNextResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Continues one or more browse operations.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:BrowseResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RelativePathElement" BaseType="ua:ExtensionObject">
<opc:Documentation>An element in a relative path.</opc:Documentation>
<opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
<opc:Field Name="IsInverse" TypeName="opc:Boolean" />
<opc:Field Name="IncludeSubtypes" TypeName="opc:Boolean" />
<opc:Field Name="TargetName" Typename="ua:QualifiedName" />
</opc:StructuredType>

<opc:StructuredType Name="RelativePath" BaseType="ua:ExtensionObject">
<opc:Documentation>A relative path constructed from reference types and browse names.</opc:Documentation>
<opc:Field Name="NoOfElements" TypeName="opc:Int32" />
<opc:Field Name="Elements" TypeName="tns:RelativePathElement" LengthField="NoOfElements" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePath" BaseType="ua:ExtensionObject">
<opc:Documentation>A request to translate a path into a node id.</opc:Documentation>
<opc:Field Name="StartingNode" TypeName="ua:NodeId" />
<opc:Field Name="RelativePath" TypeName="tns:RelativePath" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePathTarget" BaseType="ua:ExtensionObject">
<opc:Documentation>The target of the translated path.</opc:Documentation>
<opc:Field Name="TargetId" TypeName="ua:ExpandedNodeId" />
<opc:Field Name="RemainingPathIndex" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePathResult" BaseType="ua:ExtensionObject">
<opc:Documentation>The result of a translate operation.</opc:Documentation>
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="NoOfTargets" TypeName="opc:Int32" />
<opc:Field Name="Targets" TypeName="tns:BrowsePathTarget" LengthField="NoOfTargets" />
</opc:StructuredType>

<opc:StructuredType Name="TranslateBrowsePathsToNodeIdsRequest" BaseType="ua:ExtensionObject"
<opc:Documentation>Translates one or more paths in the server address space.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfBrowsePaths" TypeName="opc:Int32" />
<opc:Field Name="BrowsePaths" TypeName="tns:BrowsePath" LengthField="NoOfBrowsePaths" />
</opc:StructuredType>

<opc:StructuredType Name="TranslateBrowsePathsToNodeIdsResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Translates one or more paths in the server address space.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:BrowsePathResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterNodesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers one or more nodes for repeated use within a session.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfNodesToRegister" TypeName="opc:Int32" />
<opc:Field Name="NodesToRegister" TypeName="ua:NodeId" LengthField="NoOfNodesToRegister" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterNodesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers one or more nodes for repeated use within a session.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfRegisteredNodeIds" TypeName="opc:Int32" />
<opc:Field Name="RegisteredNodeIds" TypeName="ua:NodeId" LengthField="NoOfRegisteredNodeIds" />
</opc:StructuredType>

<opc:StructuredType Name="UnregisterNodesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Unregisters one or more previously registered nodes.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfNodesToUnregister" TypeName="opc:Int32" />
<opc:Field Name="NodesToUnregister" TypeName="ua:NodeId" LengthField="NoOfNodesToUnregister" />
</opc:StructuredType>

<opc:StructuredType Name="UnregisterNodesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Unregisters one or more previously registered nodes.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:OpaqueType Name="Counter">
<opc:Documentation>A monotonically increasing value.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="NumericRange">
<opc:Documentation>Specifies a range of array indexes.</opc:Documentation>
</opc:OpaqueType>
<opc:OpaqueType Name="Time">
    <opc:Documentation>A time value specified as HH:MM:SS.SSS.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Date">
    <opc:Documentation>A date value.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="EndpointConfiguration" BaseType="ua:ExtensionObject">
    <opc:Field Name="OperationTimeout" TypeName="opc:Int32" />
    <opc:Field Name="UseBinaryEncoding" TypeName="opc:Boolean" />
    <opc:Field Name="MaxStringLength" TypeName="opc:Int32" />
    <opc:Field Name="MaxByteStringLength" TypeName="opc:Int32" />
    <opc:Field Name="MaxArrayLength" TypeName="opc:Int32" />
    <opc:Field Name="MaxMessageSize" TypeName="opc:Int32" />
    <opc:Field Name="MaxBufferSize" TypeName="opc:Int32" />
    <opc:Field Name="ChannelLifetime" TypeName="opc:Int32" />
    <opc:Field Name="SecurityTokenLifetime" TypeName="opc:Int32" />
</opc:StructuredType>

<opc:StructuredType Name="QueryDataDescription" BaseType="ua:ExtensionObject">
    <opc:Field Name="RelativePath" TypeName="tns:RelativePath" />
    <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
    <opc:Field Name="IndexRange" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="NodeTypeDescription" BaseType="ua:ExtensionObject">
    <opc:Field Name="TypeDefinitionNode" TypeName="ua:ExpandedNodeId" />
    <opc:Field Name="IncludeSubTypes" TypeName="opc:Boolean" />
    <opc:Field Name="NoOfDataToReturn" TypeName="opc:Int32" />
    <opc:Field Name="DataToReturn" TypeName="tns:QueryDataDescription" LengthField="NoOfDataToReturn" />
</opc:StructuredType>

<opc:EnumeratedType Name="FilterOperator" LengthInBits="32">
    <opc:EnumeratedValue Name="Equals" Value="0" />
    <opc:EnumeratedValue Name="IsNull" Value="1" />
    <opc:EnumeratedValue Name="GreaterThan" Value="2" />
    <opc:EnumeratedValue Name="LessThan" Value="3" />
    <opc:EnumeratedValue Name="GreaterThanOrEqual" Value="4" />
    <opc:EnumeratedValue Name="LessThanOrEqual" Value="5" />
    <opc:EnumeratedValue Name="Like" Value="6" />
    <opc:EnumeratedValue Name="Not" Value="7" />
    <opc:EnumeratedValue Name="Between" Value="8" />
    <opc:EnumeratedValue Name="InList" Value="9" />
    <opc:EnumeratedValue Name="And" Value="10" />
    <opc:EnumeratedValue Name="Or" Value="11" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="Cast" Value="12" />  
<opc:EnumeratedValue Name="InView" Value="13" />  
<opc:EnumeratedValue Name="OfType" Value="14" />  
<opc:EnumeratedValue Name="RelatedTo" Value="15" />  
<opc:EnumeratedValue Name="BitwiseAnd" Value="16" />  
<opc:EnumeratedValue Name="BitwiseOr" Value="17" />  
</opc:EnumeratedType>

<opc:StructuredType Name="QueryDataSet" BaseType="ua:ExtensionObject">  
  <opc:Field Name="NodeId" TypeName="ua:ExpandedNodeId" />  
  <opc:Field Name="TypeDefinitionNode" TypeName="ua:ExpandedNodeId" />  
  <opc:Field Name="NoOfValues" TypeName="opc:Int32" />  
  <opc:Field Name="Values" TypeName="ua:Variant" LengthField="NoOfValues" />  
</opc:StructuredType>

<opc:StructuredType Name="NodeReference" BaseType="ua:ExtensionObject">  
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />  
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />  
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />  
  <opc:Field Name="NoOfReferencedNodeIds" TypeName="opc:Int32" />  
  <opc:Field Name="ReferencedNodeIds" TypeName="ua:NodeId" LengthField="NoOfReferencedNodeIds" />  
</opc:StructuredType>

<opc:StructuredType Name="ContentFilterElement" BaseType="ua:ExtensionObject">  
  <opc:Field Name="FilterOperator" TypeName="tns:FilterOperator" />  
  <opc:Field Name="NoOfFilterOperands" TypeName="opc:Int32" />  
  <opc:Field Name="FilterOperands" TypeName="ua:ExtensionObject" LengthField="NoOfFilterOperands" />  
</opc:StructuredType>

<opc:StructuredType Name="ContentFilter" BaseType="ua:ExtensionObject">  
  <opc:Field Name="NoOfElements" TypeName="opc:Int32" />  
  <opc:Field Name="Elements" TypeName="tns:ContentFilterElement" LengthField="NoOfElements" />  
</opc:StructuredType>

<opc:StructuredType Name="FilterOperand" BaseType="ua:ExtensionObject">  
</opc:StructuredType>

<opc:StructuredType Name="ElementOperand" BaseType="tns:FilterOperand">  
  <opc:Field Name="Index" TypeName="opc:UInt32" />  
</opc:StructuredType>

<opc:StructuredType Name="LiteralOperand" BaseType="tns:FilterOperand">  
  <opc:Field Name="Value" TypeName="ua:Variant" />  
</opc:StructuredType>

<opc:StructuredType Name="AttributeOperand" BaseType="tns:FilterOperand">  
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />  
  <opc:Field Name="Alias" TypeName="opc:String" />  
</opc:StructuredType>
<opc:Field Name="NodesToRead" TypeName="tns:ReadValueId" LengthField="NoOfNodesToRead" />
</opc:StructuredType>

<opc:StructuredType Name="ReadResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:DataValue" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadValueId" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
  <opc:Field Name="DataEncoding" TypeName="ua:QualifiedName" />
  <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
  <opc:Field Name="HistoryData" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadDetails" BaseType="tns:HistoryReadDetails">
  <opc:Field Name="NumValuesPerNode" TypeName="opc:UInt32" />
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="EndTime" TypeName="opc:DateTime" />
  <opc:Field Name="Filter" TypeName="tns:EventFilter" />
</opc:StructuredType>

<opc:StructuredType Name="ReadRawModifiedDetails" BaseType="tns:HistoryReadDetails">
  <opc:Field Name="IsReadModified" TypeName="opc:Boolean" />
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="EndTime" TypeName="opc:DateTime" />
  <opc:Field Name="NumValuesPerNode" TypeName="opc:UInt32" />
  <opc:Field Name="ReturnBounds" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ReadProcessedDetails" BaseType="tns:HistoryReadDetails">
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="EndTime" TypeName="opc:DateTime" />
  <opc:Field Name="ProcessingInterval" TypeName="opc:Double" />
  <opc:Field Name="NoOfAggregateType" TypeName="opc:Int32" />
  <opc:Field Name="AggregateType" TypeName="ua:NodeId" LengthField="NoOfAggregateType" />
</opc:StructuredType>
<opc:StructuredType Name="AggregateConfiguration" TypeName="tns:AggregateConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="ReadAtTimeDetails" BaseType="tns:HistoryReadDetails">
<opc:Field Name="NoOfReqTimes" TypeName="opc:Int32" />
<opc:Field Name="ReqTimes" TypeName="opc:DateTime" LengthField="NoOfReqTimes" />
<opc:Field Name="UseSimpleBounds" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryData" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfDataValues" TypeName="opc:Int32" />
<opc:Field Name="DataValues" TypeName="ua:DataValue" LengthField="NoOfDataValues" />
</opc:StructuredType>

<opc:StructuredType Name="ModificationInfo" BaseType="ua:ExtensionObject">
<opc:Field Name="ModificationTime" TypeName="opc:DateTime" />
<opc:Field Name="UpdateType" TypeName="tns:HistoryUpdateType" />
<opc:Field Name="UserName" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryModifiedData" BaseType="tns:HistoryData">
<opc:Field Name="NoOfDataValues" TypeName="opc:Int32" />
<opc:Field Name="DataValues" TypeName="ua:DataValue" LengthField="NoOfDataValues" />
<opc:Field Name="NoOfModificationInfos" TypeName="opc:Int32" />
<opc:Field Name="ModificationInfos" TypeName="tns:ModificationInfo" LengthField="NoOfModificationInfos" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryEvent" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfEvents" TypeName="opc:Int32" />
<opc:Field Name="Events" TypeName="tns:HistoryEventFieldList" LengthField="NoOfEvents" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="HistoryReadDetails" TypeName="ua:ExtensionObject" />
<opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
<opc:Field Name="ReleaseContinuationPoints" TypeName="opc:Boolean" />
<opc:Field Name="NoOfNodesToRead" TypeName="opc:Int32" />
<opc:Field Name="NodesToRead" TypeName="tns:HistoryReadValueId" LengthField="NoOfNodesToRead" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:HistoryReadResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>
<opc:StructuredType>
<opc:StructuredType Name="WriteValue" BaseType="ua:ExtensionObject">
<opc:Field Name="NodeId" TypeName="ua:NodeId" />
<opc:Field Name="AttributeId" TypeName="opc:UInt32" />
<opc:Field Name="IndexRange" TypeName="opc:String" />
<opc:Field Name="Value" TypeName="ua:DataValue" />
</opc:StructuredType>

<opc:StructuredType Name="WriteRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfNodesToWrite" TypeName="opc:Int32" />
<opc:Field Name="NodesToWrite" TypeName="tns:WriteValue" LengthField="NoOfNodesToWrite" />
</opc:StructuredType>

<opc:StructuredType Name="WriteResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateDetails" BaseType="tns:HistoryUpdateDetails">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
<opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
<opc:Field Name="NoOfUpdateValues" TypeName="opc:Int32" />
<opc:Field Name="UpdateValues" TypeName="ua:DataValue" LengthField="NoOfUpdateValues" />
</opc:StructuredType>

<opc:EnumeratedType Name="HistoryUpdateType" LengthInBits="32">
<opc:EnumeratedValue Name="Insert" Value="1" />
<opc:EnumeratedValue Name="Replace" Value="2" />
<opc:EnumeratedValue Name="Update" Value="3" />
<opc:EnumeratedValue Name="Delete" Value="4" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="PerformUpdateType" LengthInBits="32">
<opc:EnumeratedValue Name="Insert" Value="1" />
<opc:EnumeratedValue Name="Replace" Value="2" />
<opc:EnumeratedValue Name="Update" Value="3" />
<opc:EnumeratedValue Name="Remove" Value="4" />
</opc:EnumeratedType>

<opc:StructuredType Name="UpdateDataDetails" BaseType="tns:HistoryUpdateDetails">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
<opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
<opc:Field Name="NoOfUpdateValues" TypeName="opc:Int32" />
<opc:Field Name="UpdateValues" TypeName="ua:DataValue" LengthField="NoOfUpdateValues" />
</opc:StructuredType>
<opc:StructuredType Name="UpdateStructureDataDetails" BaseType="tns:HistoryUpdateDetails">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
<opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
<opc:Field Name="NoOfUpdateValues" TypeName="opc:Int32" />
<opc:Field Name="UpdateValues" TypeName="ua:DataValue" LengthField="NoOfUpdateValues" />
</opc:StructuredType>

<opc:StructuredType Name="UpdateEventDetails" BaseType="tns:HistoryUpdateDetails">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
<opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
<opc:Field Name="Filter" TypeName="tns:EventFilter" />
<opc:Field Name="NoOfEventData" TypeName="opc:Int32" />
<opc:Field Name="EventData" TypeName="tns:HistoryEventFieldList" LengthField="NoOfEventData" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteRawModifiedDetails" BaseType="tns:HistoryUpdateDetails">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
<opc:Field Name="IsDeleteModified" TypeName="opc:Boolean" />
<opc:Field Name="StartTime" TypeName="opc:DateTime" />
<opc:Field Name="EndTime" TypeName="opc:DateTime" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteAtTimeDetails" BaseType="tns:HistoryUpdateDetails">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
<opc:Field Name="NoOfReqTimes" TypeName="opc:Int32" />
<opc:Field Name="ReqTimes" TypeName="opc:DateTime" LengthField="NoOfReqTimes" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteEventDetails" BaseType="tns:HistoryUpdateDetails">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
<opc:Field Name="NoOfEventIds" TypeName="opc:Int32" />
<opc:Field Name="EventIds" TypeName="opc:ByteString" LengthField="NoOfEventIds" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateResult" BaseType="ua:ExtensionObject">
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="NoOfOperationResults" TypeName="opc:Int32" />
<opc:Field Name="OperationResults" TypeName="ua:StatusCode" LengthField="NoOfOperationResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfHistoryUpdateDetails" TypeName="opc:Int32" />
<opc:Field Name="HistoryUpdateDetails" TypeName="ua:ExtensionObject" LengthField="NoOfHistoryUpdateDetails" />
</opc:StructuredType>
<opc:Field Name="NoOfSelectClauseResults" TypeName="opc:Int32" />
<opc:Field Name="SelectClauseResults" TypeName="ua:StatusCode" LengthField="NoOfSelectClauseResults" />
<opc:Field Name="NoOfSelectClauseDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="SelectClauseDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfSelectClauseDiagnosticInfos" />
<opc:Field Name="WhereClauseResult" TypeName="tns:ContentFilterResult" />
</opc:StructuredType>

<opc:StructuredType Name="AggregateFilterResult" BaseType="tns:MonitoringFilterResult">
<opc:Field Name="RevisedStartTime" TypeName="opc:DateTime" />
<opc:Field Name="RevisedProcessingInterval" TypeName="opc:Double" />
<opc:Field Name="RevisedAggregateConfiguration" TypeName="tns:AggregateConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoringParameters" BaseType="ua:ExtensionObject">
<opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
<opc:Field Name="SamplingInterval" TypeName="opc:Double" />
<opc:Field Name="Filter" TypeName="ua:ExtensionObject" />
<opc:Field Name="QueueSize" TypeName="opc:UInt32" />
<opc:Field Name="DiscardOldest" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemCreateRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="ItemToMonitor" TypeName="tns:ReadValueId" />
<opc:Field Name="MonitoringMode" TypeName="tns:MonitoringMode" />
<opc:Field Name="RequestedParameters" TypeName="tns:MonitoringParameters" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemCreateResult" BaseType="ua:ExtensionObject">
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="MonitoredItemId" TypeName="opc:UInt32" />
<opc:Field Name="RevisedSamplingInterval" TypeName="opc:Double" />
<opc:Field Name="RevisedQueueSize" TypeName="opc:UInt32" />
<opc:Field Name="FilterResult" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="CreateMonitoredItemsRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
<opc:Field Name="NoOfItemsToCreate" TypeName="opc:Int32" LengthField="NoOfItemsToCreate" />
<opc:Field Name="ItemsToCreate" TypeName="tns:MonitoredItemCreateRequest" LengthField="NoOfItemsToCreate" />
</opc:StructuredType>

<opc:StructuredType Name="CreateMonitoredItemsResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>
<opc:StructuredType Name="MonitoredItemModifyRequest" BaseType="ua:ExtensionObject">
    <opc:Field Name="MonitoredItemId" TypeName="opc:UInt32" />
    <opc:Field Name="RequestedParameters" TypeName="tns:MonitoringParameters" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemModifyResult" BaseType="ua:ExtensionObject">
    <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
    <opc:Field Name="RevisedSamplingInterval" TypeName="opc:Double" />
    <opc:Field Name="RevisedQueueSize" TypeName="opc:UInt32" />
    <opc:Field Name="FilterResult" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="ModifyMonitoredItemsRequest" BaseType="ua:ExtensionObject">
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
    <opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
    <opc:Field Name="NoOfItemsToModify" TypeName="opc:Int32" />
    <opc:Field Name="ItemsToModify" TypeName="tns:MonitoredItemModifyRequest" LengthField="NoOfItemsToModify" />
</opc:StructuredType>

<opc:StructuredType Name="ModifyMonitoredItemsResponse" BaseType="ua:ExtensionObject">
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="tns:MonitoredItemModifyResult" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="SetMonitoringModeRequest" BaseType="ua:ExtensionObject">
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
    <opc:Field Name="MonitoringMode" TypeName="tns:MonitoringMode" />
    <opc:Field Name="NoOfMonitoredItemIds" TypeName="opc:Int32" />
    <opc:Field Name="MonitoredItemIds" TypeName="opc:UInt32" LengthField="NoOfMonitoredItemIds" />
</opc:StructuredType>

<opc:StructuredType Name="SetMonitoringModeResponse" BaseType="ua:ExtensionObject">
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:StructuredType Name="SetTriggeringRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfLinksToAdd" TypeName="opc:Int32" />
  <opc:Field Name="LinksToAdd" TypeName="opc:UInt32" LengthField="NoOfLinksToAdd" />
  <opc:Field Name="NoOfLinksToRemove" TypeName="opc:Int32" />
  <opc:Field Name="LinksToRemove" TypeName="opc:UInt32" LengthField="NoOfLinksToRemove" />
</opc:StructuredType>

<opc:StructuredType Name="SetTriggeringResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfAddResults" TypeName="opc:Int32" />
  <opc:Field Name="AddResults" TypeName="ua:StatusCode" LengthField="NoOfAddResults" />
  <opc:Field Name="NoOfAddDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="AddDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfAddDiagnosticInfos" />
  <opc:Field Name="NoOfRemoveResults" TypeName="opc:Int32" />
  <opc:Field Name="RemoveResults" TypeName="ua:StatusCode" LengthField="NoOfRemoveResults" />
  <opc:Field Name="NoOfRemoveDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="RemoveDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfRemoveDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteMonitoredItemsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfMonitoredItemIds" TypeName="opc:Int32" />
  <opc:Field Name="MonitoredItemIds" TypeName="opc:UInt32" LengthField="NoOfMonitoredItemIds" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteMonitoredItemsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSubscriptionRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="RequestedPublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="RequestedLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="RequestedMaxKeepAliveCount" TypeName="opc:UInt32" />
  <opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
<opc:Field Name="Priority" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSubscriptionResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="RevisedPublishingInterval" TypeName="opc:Double" />
<opc:Field Name="RevisedLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="RevisedMaxKeepAliveCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ModifySubscriptionRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="RequestedPublishingInterval" TypeName="opc:Double" />
<opc:Field Name="RequestedLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="RequestedMaxKeepAliveCount" TypeName="opc:UInt32" />
<opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
<opc:Field Name="Priority" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="ModifySubscriptionResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="RevisedPublishingInterval" TypeName="opc:Double" />
<opc:Field Name="RevisedLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="RevisedMaxKeepAliveCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SetPublishingModeRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
<opc:Field Name="NoOfSubscriptionIds" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SetPublishingModeResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="NotificationMessage" BaseType="ua:ExtensionObject">
<opc:Field Name="SequenceNumber" TypeName="opc:UInt32" />
<opc:Field Name="PublishTime" TypeName="opc:DateTime" />
<opc:Field Name="NoOfNotificationData" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:Field Name="SubscriptionAcknowledgements" TypeName="tns:SubscriptionAcknowledgement" LengthField="NoOfSubscriptionAcknowledgements" />
</opc:StructuredType>

<opc:StructuredType Name="PublishResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfAvailableSequenceNumbers" TypeName="opc:Int32" />
  <opc:Field Name="AvailableSequenceNumbers" TypeName="opc:UInt32" LengthField="NoOfAvailableSequenceNumbers" />
  <opc:Field Name="MoreNotifications" TypeName="opc:Boolean" />
  <opc:Field Name="NotificationMessage" TypeName="tns:NotificationMessage" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RepublishRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="RetransmitSequenceNumber" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="RepublishResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NotificationMessage" TypeName="tns:NotificationMessage" />
</opc:StructuredType>

<opc:StructuredType Name="TransferResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfAvailableSequenceNumbers" TypeName="opc:Int32" />
  <opc:Field Name="AvailableSequenceNumbers" TypeName="opc:UInt32" LengthField="NoOfAvailableSequenceNumbers" />
</opc:StructuredType>

<opc:StructuredType Name="TransferSubscriptionsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
  <opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
  <opc:Field Name="SendInitialValues" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="TransferSubscriptionsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:TransferResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteSubscriptionsRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
<opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteSubscriptionsResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="BuildInfo" BaseType="ua:ExtensionObject">
<opc:Field Name="ProductUri" TypeName="opc:String" />
<opc:Field Name="ManufacturerName" TypeName="opc:String" />
<opc:Field Name="ProductName" TypeName="opc:String" />
<opc:Field Name="SoftwareVersion" TypeName="opc:String" />
<opc:Field Name="BuildNumber" TypeName="opc:String" />
<opc:Field Name="BuildDate" TypeName="opc:DateTime" />
</opc:StructuredType>

<opc:EnumeratedType Name="RedundancySupport" LengthInBits="32">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="Cold" Value="1" />
<opc:EnumeratedValue Name="Warm" Value="2" />
<opc:EnumeratedValue Name="Hot" Value="3" />
<opc:EnumeratedValue Name="Transparent" Value="4" />
<opc:EnumeratedValue Name="HotAndMirrored" Value="5" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="ServerState" LengthInBits="32">
<opc:EnumeratedValue Name="Running" Value="0" />
<opc:EnumeratedValue Name="Failed" Value="1" />
<opc:EnumeratedValue Name="NoConfiguration" Value="2" />
<opc:EnumeratedValue Name="Suspended" Value="3" />
<opc:EnumeratedValue Name="Shutdown" Value="4" />
<opc:EnumeratedValue Name="Test" Value="5" />
<opc:EnumeratedValue Name="CommunicationFault" Value="6" />
<opc:EnumeratedValue Name="Unknown" Value="7" />
</opc:EnumeratedType>

<opc:StructuredType Name="RedundantServerDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="ServerId" TypeName="opc:String" />
</opc:StructuredType>
<opc:Field Name="ServiceLevel" TypeName="opc:Byte" />
<opc:Field Name="ServerState" TypeName="tns:ServerState" />
</opc:StructuredType>

<opc:StructuredType Name="EndpointUrlListDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfEndpointUrlList" TypeName="opc:Int32" />
  <opc:Field Name="EndpointUrlList" TypeName="opc:String" LengthField="NoOfEndpointUrlList" />
</opc:StructuredType>

<opc:StructuredType Name="NetworkGroupDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="ServerUri" TypeName="opc:String" />
  <opc:Field Name="NoOfNetworkPaths" TypeName="opc:Int32" />
  <opc:Field Name="NetworkPaths" TypeName="tns:EndpointUrlListDataType" LengthField="NoOfNetworkPaths" />
</opc:StructuredType>

<opc:StructuredType Name="SamplingIntervalDiagnosticsDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="SamplingInterval" TypeName="opc:Double" />
  <opc:Field Name="MonitoredItemCount" TypeName="opc:UInt32" />
  <opc:Field Name="MaxMonitoredItemCount" TypeName="opc:UInt32" />
  <opc:Field Name="DisabledMonitoredItemCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ServerDiagnosticsSummaryDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="ServerViewCount" TypeName="opc:UInt32" />
  <opc:Field Name="CurrentSessionCount" TypeName="opc:UInt32" />
  <opc:Field Name="CumulatedSessionCount" TypeName="opc:UInt32" />
  <opc:Field Name="SecurityRejectedSessionCount" TypeName="opc:UInt32" />
  <opc:Field Name="RejectedSessionCount" TypeName="opc:UInt32" />
  <opc:Field Name="SessionTimeoutCount" TypeName="opc:UInt32" />
  <opc:Field Name="SessionAbortCount" TypeName="opc:UInt32" />
  <opc:Field Name="CurrentSubscriptionCount" TypeName="opc:UInt32" />
  <opc:Field Name="CumulatedSubscriptionCount" TypeName="opc:UInt32" />
  <opc:Field Name="PublishingIntervalCount" TypeName="opc:UInt32" />
  <opc:Field Name="SecurityRejectedRequestsCount" TypeName="opc:UInt32" />
  <opc:Field Name="RejectedRequestsCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ServerStatusDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="CurrentTime" TypeName="opc:DateTime" />
  <opc:Field Name="State" TypeName="tns:ServerState" />
  <opc:Field Name="BuildInfo" TypeName="tns:BuildInfo" />
  <opc:Field Name="SecondsTillShutdown" TypeName="opc:UInt32" />
  <opc:Field Name="ShutdownReason" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="SessionDiagnosticsDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>
<opc:StructuredType Name="ClientUserIdOfSession" TypeName="opc:String" />
<opc:Field Name="NoOfClientUserIdHistory" TypeName="opc:Int32" />
<opc:Field Name="ClientUserIdHistory" TypeName="opc:String" LengthField="NoOfClientUserIdHistory" />
<opc:Field Name="AuthenticationMechanism" TypeName="opc:String" />
<opc:Field Name="Encoding" TypeName="opc:String" />
<opc:Field Name="TransportProtocol" TypeName="opc:String" />
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
<opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
<opc:Field Name="ClientCertificate" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="ServiceCounterDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="TotalCount" TypeName="opc:UInt32" />
  <opc:Field Name="ErrorCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="StatusResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" />
</opc:StructuredType>

<opc:StructuredType Name="SubscriptionDiagnosticsDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="SessionId" TypeName="ua:NodeId" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="Priority" TypeName="opc:Byte" />
  <opc:Field Name="PublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="MaxKeepAliveCount" TypeName="opc:UInt32" />
  <opc:Field Name="MaxLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
  <opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
  <opc:Field Name="ModifyCount" TypeName="opc:UInt32" />
  <opc:Field Name="EnableCount" TypeName="opc:UInt32" />
  <opc:Field Name="DisableCount" TypeName="opc:UInt32" />
  <opc:Field Name="RepublishRequestCount" TypeName="opc:UInt32" />
  <opc:Field Name="RepublishMessageRequestCount" TypeName="opc:UInt32" />
  <opc:Field Name="TransferRequestCount" TypeName="opc:UInt32" />
  <opc:Field Name="TransferredToAltClientCount" TypeName="opc:UInt32" />
  <opc:Field Name="TransferredToSameClientCount" TypeName="opc:UInt32" />
  <opc:Field Name="PublishRequestCount" TypeName="opc:UInt32" />
  <opc:Field Name="DataChangeNotificationsCount" TypeName="opc:UInt32" />
  <opc:Field Name="EventNotificationsCount" TypeName="opc:UInt32" />
  <opc:Field Name="NotificationsCount" TypeName="opc:UInt32" />
  <opc:Field Name="LatePublishRequestCount" TypeName="opc:UInt32" />
  <opc:Field Name="CurrentKeepAliveCount" TypeName="opc:UInt32" />
  <opc:Field Name="CurrentLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="UnacknowledgedMessageCount" TypeName="opc:UInt32" />
  <opc:Field Name="DiscardedMessageCount" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:StructuredType Name="DoubleComplexNumberType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Real" TypeName="opc:Double" />
  <opc:Field Name="Imaginary" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="AxisInformation" BaseType="ua:ExtensionObject">
  <opc:Field Name="EngineeringUnits" TypeName="tns:EUInformation" />
  <opc:Field Name="EURange" TypeName="tns:Range" />
  <opc:Field Name="Title" TypeName="ua:LocalizedText" />
  <opc:Field Name="AxisScaleType" TypeName="tns:AxisScaleEnumeration" />
  <opc:Field Name="NoOfAxisSteps" TypeName="opc:Int32" />
  <opc:Field Name="AxisSteps" TypeName="opc:Double" LengthField="NoOfAxisSteps" />
</opc:StructuredType>

<opc:StructuredType Name="XVType" BaseType="ua:ExtensionObject">
  <opc:Field Name="X" TypeName="opc:Double" />
  <opc:Field Name="Value" TypeName="opc:Float" />
</opc:StructuredType>

<opc:StructuredType Name="ProgramDiagnosticDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="CreateSessionId" TypeName="ua:NodeId" />
  <opc:Field Name="CreateClientName" TypeName="opc:String" />
  <opc:Field Name="InvocationCreationTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastTransitionTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastMethodCall" TypeName="opc:String" />
  <opc:Field Name="LastMethodSessionId" TypeName="ua:NodeId" />
  <opc:Field Name="NoOfLastMethodInputArguments" TypeName="opc:Int32" />
  <opc:Field Name="LastMethodInputArguments" TypeName="tns:Argument" LengthField="NoOfLastMethodInputArguments" />
  <opc:Field Name="NoOfLastMethodOutputArguments" TypeName="opc:Int32" />
  <opc:Field Name="LastMethodOutputArguments" TypeName="tns:Argument" LengthField="NoOfLastMethodOutputArguments" />
  <opc:Field Name="LastMethodCallTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastMethodReturnStatus" TypeName="tns:StatusResult" />
</opc:StructuredType>

<opc:StructuredType Name="ProgramDiagnostic2DataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="CreateSessionId" TypeName="ua:NodeId" />
  <opc:Field Name="CreateClientName" TypeName="opc:String" />
  <opc:Field Name="InvocationCreationTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastTransitionTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastMethodCall" TypeName="opc:String" />
  <opc:Field Name="LastMethodSessionId" TypeName="ua:NodeId" />
  <opc:Field Name="NoOfLastMethodInputArguments" TypeName="opc:Int32" />
  <opc:Field Name="LastMethodInputArguments" TypeName="tns:Argument" LengthField="NoOfLastMethodInputArguments" />
  <opc:Field Name="NoOfLastMethodOutputArguments" TypeName="opc:Int32" />
  <opc:Field Name="LastMethodOutputArguments" TypeName="tns:Argument" LengthField="NoOfLastMethodOutputArguments" />
  <opc:Field Name="LastMethodCallTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastMethodReturnStatus" TypeName="tns:StatusResult" />
</opc:StructuredType>
<opc:Field Name="LastMethodOutputArguments" TypeName="tns:Argument" LengthField="NoOfLastMethodOutputArguments" />
<opc:Field Name="NoOfLastMethodInputValues" TypeName="opc:Int32" />
<opc:Field Name="LastMethodInputValues" TypeName="ua:Variant" LengthField="NoOfLastMethodInputValues" />
<opc:Field Name="NoOfLastMethodOutputValues" TypeName="opc:Int32" />
<opc:Field Name="LastMethodOutputValues" TypeName="ua:Variant" LengthField="NoOfLastMethodOutputValues" />
<opc:Field Name="LastMethodCallTime" TypeName="opc:DateTime" />
<opc:Field Name="LastMethodReturnStatus" TypeName="tns:StatusResult" />
</opc:StructuredType>

<opc:StructuredType Name="Annotation" BaseType="ua:ExtensionObject">
<opc:Field Name="Message" TypeName="opc:String" />
<opc:Field Name="UserName" TypeName="opc:String" />
<opc:Field Name="AnnotationTime" TypeName="opc:DateTime" />
</opc:StructuredType>

<opc:EnumeratedType Name="ExceptionDeviationFormat" LengthInBits="32">
<opc:EnumeratedValue Name="AbsoluteValue" Value="0" />
<opc:EnumeratedValue Name="PercentOfValue" Value="1" />
<opc:EnumeratedValue Name="PercentOfRange" Value="2" />
<opc:EnumeratedValue Name="PercentOfEURange" Value="3" />
<opc:EnumeratedValue Name="Unknown" Value="4" />
</opc:EnumeratedType>

</opc:TypeDictionary>

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1.842 dynatrace-oss-dynatrace-metric-utils-go 0.1.0

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1.844 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,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

## Versioned libraries rules
## 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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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1

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1.852 jest-canva...
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==================

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1.858 sys-mount 0.3.0

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1.859 pycparser 2.21

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1.860 isl 0.20-2

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1.864 libxml2 2.9.12-r2

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1.865 gawk 4.2.1+dfsg-1

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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
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lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_inquire_context.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
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1.897 cpp 10.2.1 6
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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

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1.898 containerd-typeurl 1.0.2

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1.899 govmomi 0.19.0

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package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

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/*

package license

import (                      
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)*/
type assign struct {
  *flags.ClientFlag
  *flags.OutputFlag
  *flags.HostSystemFlag
  *flags.ClusterFlag

  name   string
  remove bool
}

func init() {
  cli.Register("license.assign", &assign{ })
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)

  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)

  cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
  cmd.HostSystemFlag.Register(ctx, f)

  cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
  cmd.ClusterFlag.Register(ctx, f)

  f.StringVar(&cmd.name, "name", "", "Display name")
  f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }

  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }

  if err := cmd.HostSystemFlag.Process(ctx); err != nil {
    return err
  }

  return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
  return "KEY"
}
func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.

Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }

    key := f.Arg(0)

    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    host, err := cmd.HostSystemIfSpecified()
    if err != nil {
        return err
    }

    var id string

    if host == nil {
        cluster, cerr := cmd.ClusterIfSpecified()
        if cerr != nil {
            return cerr
        }
        if cluster == nil {
            // Default to vCenter UUID
            id = client.ServiceContent.About.InstanceUuid
        } else {
            id = cluster.Reference().Value
        }
    } else {
        id = host.Reference().Value
    }
}
if cmd.remove {
    return m.Remove(ctx, id)
}

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))

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*/

package license

import (
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

type ls struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
    }
func init() {
cli.Register("license.ls", &ls{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    result, err := m.List(ctx)
    if err != nil {
        return err
    }
    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }
    return cmd.WriteResult(licenseOutput(result))
}

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*/
package license

import {
  "context"
  "flag"
  "fmt"

  "github.com/vmware/govmomi/govc/cli"
  "github.com/vmware/govmomi/govc/flags"
  "github.com/vmware/govmomi/license"
  "github.com/vmware/govmomi/vim25/types"
}

type add struct {
  *flags.ClientFlag
  *flags.OutputFlag
}

func init() {
  cli.Register("license.add", &add{ })
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)
  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }
  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }
  return nil

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/*
func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    // From the vSphere 5.5 documentation:
    //
    // To specify the edition type and any optional functions, use
    // updateLicense for ESX Server and addLicense follow by
    // LicenseAssignmentManager.updateAssignedLicense for VirtualCenter.
    //
    var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
    switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        addFunc = m.Update
    case "VirtualCenter":
        addFunc = m.Add
    default:
        return fmt.Errorf("unsupported ApiType: %s", t)
    }

    result := make(licenseOutput, 0)
    for _, v := range f.Args() {
        license, err := addFunc(ctx, v, nil)
        if err != nil {
            return err
        }
        result = append(result, license)
    }

    return cmd.WriteResult(licenseOutput(result))
}

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package simulator

import (  
    "context"  
    "reflect"  
    "testing"  
    "github.com/vmware/govmomi"  
    "github.com/vmware/govmomi/find"  
    "github.com/vmware/govmomi/license"
)

func TestLicenseManagerVPX(t *testing.T) {  
    ctx := context.Background()  
    m := VPX()  
    defer m.Remove()  
    err := m.Create()  
    if err != nil {  
        t.Fatal(err)  
    }  
    s := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
am, err := lm.AssignmentManager(ctx)
if err != nil {
    t.Fatal(err)
}

la, err := am.QueryAssigned(ctx, "enoent")
if err != nil {
    t.Fatal(err)
}

if len(la) != 0 {
    t.Errorf("unexpected license")
}

finder := find.NewFinder(c.Client, false)
hosts, err := finder.HostSystemList(ctx, "/...")
if err != nil {
    t.Fatal(err)
}

host := hosts[0].Reference().Value

for _, name := range []string{"", host, vcid} {
    la, err = am.QueryAssigned(ctx, name)
    if err != nil {
        t.Fatal(err)
    }
    if len(la) != 1 {
        t.Fatal("no licenses")
    }
    if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
        t.Fatal("invalid license")
    }
}

func TestLicenseManagerESX(t *testing.T) {

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
    m := ESX()

    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    _, err = lm.AssignmentManager(ctx)
    if err == nil {
        t.Fatal("expected error")
    }

    la, err := lm.List(ctx)
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 1 {
        t.Fatal("no licenses")
    }

    if !reflect.DeepEqual(la[0], EvalLicense) {
        t.Fatal("invalid license")
    }
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
    m := ESX()

    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }
s := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
key := "00000-00000-00000-00000-11111"
labels := map[string]string{"key": "value"}

info, err := lm.Add(ctx, key, labels)
if err != nil {
    t.Fatal(err)
}

if info.LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}

if len(info.Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {"s:s}", info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 2 {
    t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(la[1].Labels), len(labels))
}
len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
t.Fatalf("expect label to be {key:value}; got {%s:%s}",
la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key)
if err != nil {
t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
t.Fatal(err)
}

if len(la) != 1 {
t.Fatal("no licenses")
}

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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: "string"}
    }
}
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
}

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,
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

package license

import (  
    "context"  
    "flag"  
    "github.com/vmware/govmomi/govc/cli"  
    "github.com/vmware/govmomi/govc/flags"  
    "github.com/vmware/govmomi/license"
)

type decode struct {  
*flags.ClientFlag  
*flags.OutputFlag  

    feature string  
}
func init() {
    cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.feature, "feature", ",", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    var result license.InfoList
    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {
            return err
        }
        result = append(result, license)
    }
    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }

return cmd.WriteResult(licenseOutput(result))
}

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/*
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package license

import (  
  "context"
  "strconv"
  "strings"

  "github.com/vmware/govmomi/object"
  "github.com/vmware/govmomi/vim25"
  "github.com/vmware/govmomi/vim25/methods"
  "github.com/vmware/govmomi/vim25/mo"
  "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {  
  object.Common
}

func NewManager(c *vim25.Client) *Manager {  
  m := Manager{  
    object.NewCommon(c, *c.ServiceContent.LicenseManager),
  }

  return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {  
  var r []types.KeyValue  
  for k, v := range m {  
    r = append(r, types.KeyValue{Key: k, Value: v})  
  }  

  return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
req := types.AddLicense{
    This:       m.Reference(),
    LicenseKey: key,
    Labels:     mapToKeyValueSlice(labels),
}

res, err := methods.AddLicense(ctx, m.Client(), &req)
if err != nil {
    return types.LicenseManagerLicenseInfo{}, err
}

return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
    This:       m.Reference(),
    LicenseKey: key,
    }

    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
    This:       m.Reference(),
    LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
    This:       m.Reference(),
    LicenseKey: key,
    Labels:     mapToKeyValueSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }
    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }
    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }
    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }
    return &am, nil
}

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    f := strings.Split(feature, ":")
    lf.name = f[0]
    return lf
}
if len(f) > 1 {
    var err error
    lf.level, err = strconv.Atoi(f[1])
    if err != nil {
        lf.name = feature
    }
}
return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)

    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }

        kv, ok := p.Value.(types.KeyValue)
        if !ok {
            continue
        }

        lf := parseLicenseFeature(kv.Key)

        if lf.name == feature.name && lf.level >= feature.level {
            return true
        }
    }

    return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
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*/

package license

import (  "context"  "flag"  
  "github.com/vmware/govmomi/govc/cli"  "github.com/vmware/govmomi/govc/flags"  "github.com/vmware/govmomi/license"
)

type remove struct {  *flags.ClientFlag  *flags.OutputFlag
}

func init() {  cli.Register("license.remove", &remove{ })
}

}

func (cmd *remove) Process(ctx context.Context) error {  if err := cmd.ClientFlag.Process(ctx); err != nil {  return err
if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
}
return nil

func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }

    return nil
}

package license

import {
    "context"
    "flag"

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/*
type assigned struct {
    *flags.ClientFlag
    *flags.OutputFlag
    id string
}

func init() {
    cli.Register("license.assigned.ls", &assigned{})
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client() // Assuming Client is defined
    if err != nil {
        return err
    }
}
m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
    return err
}

assigned, err := m.QueryAssigned(ctx, cmd.id)
if err != nil {
    return err
}
return cmd.WriteResult(assignedOutput(assigned))

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
")
    for _, v := range res {
        fmt.Fprintf(tw, "%s\t", v.EntityId)
        fmt.Fprintf(tw, "%s\t", v.Scope)
        fmt.Fprintf(tw, "%s\t", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s\t", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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package license

import (
    "fmt"
    "io"
    "os"
    "text/tabwriter"
    
    "github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(w, 4, 0, 2, ' ', 0)
fmt.Fprintf(tw, "Key:	Edition:	Used:	Total:
")
for _, v := range res {
fmt.Fprintf(tw, "%s	", v.LicenseKey)
fmt.Fprintf(tw, "%s	", v.EditionKey)
fmt.Fprintf(tw, "%d	", v.Used)
fmt.Fprintf(tw, "%d	", v.Total)
}
return tw.Flush()
}

#!/usr/bin/env bats
load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
if [ "$(govc license.ls -json | jq -r .[0].EditionKey)" != "eval" ]; then
  skip "requires evaluation license"
fi
}

get_key() {
  jq ".[.] | select(.LicenseKey == "$1")"
}

get_property() {
  jq -r ".Properties[ ] | select(.Key == "$1") | .Value"
}

@test "license.add" {
  esx_env
  verify_evaluation

  run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
  assert_success

  # Expect to see an entry for both the first and the second key
  assert_equal "License is not valid for this product" "$1" <<<$(output) |
  get_property diagnostic"
  assert_equal "License is not valid for this product" "$1" <<<$(output) |
  get_property diagnostic"
}

@test "license.remove" {
  esx_env
  verify_evaluation
run govc license.remove -json 00000-00000-00000-00000-00001
assert_success
}

@test "license.ls" {
  vcsim_env

  verify_evaluation

  run govc license.ls -json
  assert_success

  # Expect the test instance to run in evaluation mode
  assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000 <<<$output | jq -r ".Name")"
}

@test "license.decode" {
  esx_env

  verify_evaluation

  key=00000-00000-00000-00000-00000
  assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

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import (
    "context"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
)

type AssignmentManager struct {
    object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:     m.Reference(),
    }
    return
}
EntityId: id,

res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
if err != nil {
    return nil, err
}

return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
        EntityId: id,
    }

    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)

    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:              m.Reference(),
        Entity:            id,
        LicenseKey:        key,
        EntityDisplayName: name,
    }

    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return &res.Returnval, nil
}

1.900 pcre 10.36-2

1.900.1 Available under license:

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

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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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1.919 curl 7.64.0-4+deb10u2

1.919.1 Available under license:

License Mixing

 libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

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(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.
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## libssh2

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1.920 websocket-client 0.57.0

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1.924 pflag 1.0.5

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1.925 yup 0.28.5

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1.926 azure-sdk-for-go 45.1.0+incompatible

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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
}

define void @autogen_SD4739(i8*) {
  ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
  BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246
  CF246:                                            ; preds = %CF246, %BB
  %S1163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248
  CF248:                                            ; preds = %CF248, %CF246
  store i8 %S1163, i8* %0
  br label %CF248
}

---

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; 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: sshll2.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[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, 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:

  ; First, extend each i64 to i128
  ; 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: sshll2.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[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 <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, 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 <4 x double> %res
}
%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.

define fp128 @TestSelect(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestSelect:
; CHECK:       # %bb.0:
; CHECK-NEXT:  pushq %rbx
; CHECK-NEXT:   .cfi_def_cfa_offset 16
; CHECK-NEXT:   subq $32, %rsp
; CHECK-NEXT:   .cfi_def_cfa_offset 48
; CHECK-NEXT:   .cfi_offset %rbx, -16
; CHECK-NEXT:   movaps %xmm1, [%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 [%r{{[sb]}}p], %xmm1 # 16-byte Reload
; CHECK-NEXT:   callq __subtf3
; CHECK-NEXT:   testl %ebx, %ebx
; CHECK-NEXT:   jg .LBB0_2
; CHECK-NEXT:   xorps %xmm0, %xmm0
; CHECK-NEXT:   .LBB0_2:
; CHECK-NEXT:   .cfi_def_cfa_offset 16
; CHECK-NEXT:   popq %rbx
; CHECK-NEXT:   .cfi_def_cfa_offset 8
; CHECK-NEXT:   retq
%cmp = fcmp ogt fp128 %a, %b
%sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
ret fp128 %res
}
define fp128 @TestFabs(fp128 %a) {  
; CHECK-LABEL: TestFabs:  
; CHECK:   # %bb.0:  
; CHECK-NEXT: andps {{.*}}(%rip), %xmm0  
; CHECK-NEXT: retq  
%res = call fp128 @llvm.fabs.f128(fp128 %a)  
ret fp128 %res  
}  

define fp128 @TestCopysign(fp128 %a, fp128 %b) {  
; CHECK-LABEL: TestCopysign:  
; CHECK:   # %bb.0:  
; CHECK-NEXT: andps {{.*}}(%rip), %xmm1  
; CHECK-NEXT: andps {{.*}}(%rip), %xmm0  
; CHECK-NEXT: orps %xmm1, %xmm0  
; CHECK-NEXT: retq  
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)  
ret fp128 %res  
}  

define fp128 @TestFneg(fp128 %a) {  
; CHECK-LABEL: TestFneg:  
; CHECK:  
; CHECK-NEXT: pushq %rax  
; CHECK-NEXT: .cfi_def_cfa_offset 16  
; CHECK-NEXT: movaps %xmm0, %xmm1  
; CHECK-NEXT: callq __multf3  
; CHECK-NEXT: xorps {{.*}}(%rip), %xmm0  
; CHECK-NEXT: popq %rax  
; CHECK-NEXT: .cfi_def_cfa_offset 8  
; CHECK-NEXT: retq  
%mul = fmul fp128 %a, %a  
%res = fsub fp128 0xL0000000000000000800000000000000000000000000000000, %mul  
ret fp128 %res  
}  
; RUN: opt %s -inline -S | FileCheck %s  

define internal void @innerSmall() "min-legal-vector-width"="128" {  
ret void  
}  

define internal void @innerLarge() "min-legal-vector-width"="512" {  
ret void  
}  

define internal void @innerNoAttribute() {  
ret void  
}
; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
  call void @innerSmall()
  ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
  call void @innerNoAttribute()
  ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: opt -conshoist-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
; 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:  %2 = inttoptr i32 %[[M1], to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
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
}

define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* %0, align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %3 = load volatile i32, i32* %2, align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874720 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874750 to i32*), align 4
  %6 = load volatile i32, i32* inttoptr (i32 805874752 to i32*), align 4
  %7 = load volatile i32, i32* %6, align 4
  %8 = load volatile i32, i32* inttoptr (i32 805874774 to i32*), align 4
  ret void
}
%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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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:
  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_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg)
  CHECK-NEXT: [[TMP4:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]]
  CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 %tmp4, i8 0, i64 32, i1 false)
  CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg)
  CHECK-NEXT: ret void
}

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define \{[^@]+\}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define \{[^@]+\}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: %[TMP:%.*] = alloca <8 x i64>, align 32
; CHECK-NEXT: %[TMP2:%.*] = alloca <8 x i64>, align 32
; CHECK-NEXT: %[TMP3:%.*] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %arg)
; CHECK-NEXT: %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %arg)
%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 {
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:    %arg = bitcast <8 x i64>* %arg to i8*
    ; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<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:    %arg = bitcast 8 x i64>* %arg to i8*
    ; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(8 x i64)* %arg
    ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    ; CHECK-LABEL: define {{\[^@\]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
    ; CHECK-NEXT:  bb:
    ; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
    ; CHECK-NEXT:    ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(8 x i64>* %arg) #1 {
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
}

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
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 {
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(\* %arg) #2 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (\* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:.*]] = alloca \* \* %arg, align 32
  ; CHECK-NEXT: [[TMP2:.*]] = alloca \* \* %arg, align 32
  ; CHECK-NEXT: [[TMP3:.*]] = bitcast \* \* %arg 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(\* \* %arg, \* \* %arg)
  ; CHECK-NEXT: bb:
  %tmp = alloca \* \* %arg, align 32
  %tmp2 = alloca \* \* %arg, align 32
  %tmp3 = bitcast \* \* %arg to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(\* %arg, \* %arg)
  ; This should not promote
  define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(\* %arg, \* %arg) #2 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (\* [[ARG:%.*]], \* [[ARG1:%.*]])
    ; CHECK-NEXT: bb:
    %tmp = load \* %arg, \* %arg
    store %tmp, \* %arg
    ret void
  }
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(\* %arg) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (\* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:.*]] = alloca \* %arg, align 32
}
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
    bb:
    store <8 x i64> %arg1, <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>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, %<8 x i64>* readonly %arg1) #3 {
    bb:
    store <8 x i64> %arg1, <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>* %arg
    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]], align 2
  ;
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  ; CHECK-LABEL: define {{\[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT:  bb:
  ; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* %tmp to i8*
  ; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]]
  ; CHECK-NEXT:    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
  ; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP4]], align 2
  ; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ;
  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_legal12_prefer256(i32* %X, i32* %Y) #2 {
    CHECK-LABEL: define
    (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
    CHECK-NEXT: [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
    CHECK-NEXT: ret i32 [[C]]
;
    %A = load i32, i32* %X
    %B = load i32, i32* %Y
    %C = add i32 %A, %B
    ret i32 %C
}
define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
    CHECK-LABEL: define
    (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:%.*]] = alloca i32
    CHECK-NEXT: store i32 1, i32* [[B]]
    CHECK-NEXT: [[B_VAL:%.*]] = load i32, i32* [[B]]
    CHECK-NEXT: [[C:%.*]] = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal12_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_legal12_prefer256(i32* %A, i32* %B)
    ret i32 %C
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal12_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
    CHECK-LABEL: define
    (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
    CHECK-NEXT: [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]

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define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
    %A = alloca i32
    store i32 1, i32* %A
    %A_VAL = load i32, i32* %A
    %B_VAL = load i32, i32* %B
    %C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 %A_VAL, i32 %B_VAL)
    ret i32 %C
}

define void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5
attributes {{ 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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; 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,avx512vnni | 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 -mattr=-avx512vnni -mcpu=cannonlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
  CHECK-LABEL: add256:
  ; CHECK: # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT: vpaddd 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT: vpaddd (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpaddd (%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, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, 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
}

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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 0, %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>
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, %i32 0, %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>
    %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_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:  vmovdqa %ymm0, 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>
define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: pmaddwd_32_512:
  ; CHECK:     # %bb.0:
  ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT: vzeroupper
  retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 0, %i32 2, %i32 4, %i32 6, %i32 8, %i32 10, %i32 12, %i32 14, %i32 16, %i32 18, %i32 20, %i32 22, %i32 24, %i32 26, %i32 28, %i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 1, %i32 3, %i32 5, %i32 7, %i32 9, %i32 11, %i32 13, %i32 15, %i32 17, %i32 19, %i32 21, %i32 23, %i32 25, %i32 27, %i32 29, %i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: psubus_64i8_max_256:
  ; CHECK:     # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT: vmovdqa %ymm0, 32(%rdx)
  ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %x = load <64 x i8>, <64 x i8>* %xptr
  %y = load <64 x i8>, <64 x i8>* %yptr
  %cmp = icmp ult <64 x i8> %x, %y
  %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
  %res = sub <64 x i8> %max, %y
  store <64 x i8> %res, <64 x i8>* %zptr
  ret void
}
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {

; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:
    # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%x = load <64 x i8>, <64 x i8>* %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 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: cmpq %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

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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> 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 unde...
%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> undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, 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
}

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:  vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
  ; 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
  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>*
%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 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 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
};
; 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:     addq $4, %rax
; CHECK-NEXT:     jne .LBB10_1
; CHECK-NEXT:     # %bb.2: # %middle.block
; CHECK-NEXT:     vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:     vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:     vpaddd %xmm1, %ymm0, %ymm0
; CHECK-NEXT:     vpshufd [1,1,1,1] xmm1 = xmm0[1,1,1,1]
; CHECK-NEXT:     vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:     vmovd %ymm0, %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> [ zeroinitialize, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitialize, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body
middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%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>
%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>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
  CHECK-LABEL: sad_16i8_512:
  ; CHECK:      # %bb.0: # %entry
  ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB11_1: # %vector.body
  ; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:  vmovdqu a+1024(%rax), %xmm1
  ; CHECK-NEXT:  vpsadbw b+1024(%rax), %xmm1, %xmm1
  ; CHECK-NEXT:  vpadd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT:  jne .LBB11_1
  ; CHECK-NEXT:  vpaddd %zmm1, %zmm1, %zmm1
  ; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %xmm0
  ; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %xmm0
  ; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
  ; CHECK-NEXT:  vpadd %xmm1, %zmm0, %zmm0
  ; 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> [ zeroinitialize, %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 = sext <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 = sext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5

%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitialize, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:

%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define 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: vmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtq2ps %ymm0, %ymm0
}
define void @sbt16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbt16f32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %l = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %l, <16 x float>* %res
    ret void
}

define void @sbt16f64_256(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbt16f64_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
    %l = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %l, <16 x double>* %res
    ret void
}

; 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
%l = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %l, <16 x float>* %res
ret void
}
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:  
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtldqu %ymm0, %zmm0
; CHECK-NEXT: vextractf64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
   %mask = icmp slt <16 x i16> %a, zeroinitialize
   %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:  
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtlpd %ymm0, %ymmm0
; CHECK-NEXT: vpmovm2d %k0, %ymmm0
; CHECK-NEXT: vpmovaps %ymmm0, 64(%rdi)
; CHECK-NEXT: vpmovaps %ymmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
   %mask = icmp slt <16 x i16> %a, zeroinitialize
   %1 = uitofp <16 x i1> %mask to <16 x float>
   store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:  
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtldqu %ymm0, %zmm0
; CHECK-NEXT: vextractf64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
   %mask = icmp slt <16 x i16> %a, zeroinitialize
   %1 = uitofp <16 x i1> %mask to <16 x float>
   store <16 x float> %1, <16 x float>* %res
ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f64_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT:  vextracti128 %1, %ymm0, %xmm0
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:  vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:  vpsrld $31, %ymm2, %ymm2
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:  vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:  vpsrld $31, %ymm2, %ymm2
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:  vextracti128 %1, %ymm2, %xmm2
    ; CHECK-NEXT:  vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:  vpsrld $31, %ymm2, %ymm2
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:  vextracti128 %1, %ymm2, %xmm2
    ; 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:       # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT:  vextracti64x4 %1, %ymm0, %xmm0
    ; CHECK-NEXT:  vmovaps %ymm0, 64(%rdi)
    ; CHECK-NEXT:  vextracti64x4 %1, %ymm1, 32(%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 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:  kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT:  vmovaps %ymm0, 64(%rdi)
    ; CHECK-NEXT:  vcvtdq2pd %ymm0, %ymm0
    ; CHECK-NEXT:  vextracti64x4 %1, %ymm0, %xmm0
    ; 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 <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32toub_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT:    vpmovd2m %ymm1, %k0
    ; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT:    vpmovd2m %ymm1, %k1
    ; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32toub_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:    vpslld $31, %zmm1, %zmm1
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT:    vpmovd2m %ymm1, %k0
    ; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT:    vpmovd2m %ymm1, %k1
    ; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}
define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    %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> zeroinitialize
    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" {
    %a = load <64 x i8>, <64 x i8>* %ptr
    %mask = fptosi <64 x float> %a to <64 x i1>
    %select = select <64 x i1> %mask, <64 x i8> %passthru, <64 x i8> zeroinitialize
    ret <64 x i8> %select

; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm3 =
    ymm2[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,31,31]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
    ymm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,31,31]
; CHECK-AVX512-NEXT:  vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT:  vpad %ymm5, %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm2 =
    ymm2[0,1,1,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm0 =
    ymm0[0,1,1,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpmullw %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpad %ymm5, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-AVX512-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-AVX512-NEXT:  vzeroupper
; CHECK-AVX512-NEXT:  retq

; CHECK-VBMI-LABEL:  mul256:
; CHECK-VBMI:  # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
    ymm3[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,31,31]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
    ymm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vpermt2b %ymm3, %ymm1, %ymm0
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm2 =
    ymm2[0,1,1,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm0 =
    ymm0[0,1,1,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
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:  
    CHECK-AVX512-NEXT:    vmoveqa64 (%rdi), %zmm0  
    CHECK-AVX512-NEXT:    vmoveqa64 (%rsi), %zmm1  
    CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} zmm2 =  
    zmm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]  
    CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} zmm3 =  
    zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]  
    CHECK-AVX512-NEXT:    vpmullw %zmm2, %zmm3, %zmm2  
    CHECK-AVX512-NEXT:    vpackuswb %zmm2, %zmm0, %zmm0  
    CHECK-AVX512-NEXT:    vzeroupper  
    CHECK-AVX512-NEXT:    retq  
    
    ; CHECK-VBMI-LABEL: mul512:  
    CHECK-VBMI:    # %bb.0:  
    CHECK-VBMI-NEXT:  
    CHECK-VBMI-NEXT:    vmoveq %ymm0, (%rdx)  
    CHECK-VBMI-NEXT:    vmoveq %ymm1, 32(%rdx)  
    CHECK-VBMI-NEXT:    vzeroupper  
    CHECK-VBMI-NEXT:    retq  
};
; 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: vpbldnmd (%rdi), %xmm1, %xmm0 {%k1}
    ; CHECK-NEXT: retq
    %mask = icmp eq <4 x i32> %trigger, zeroinitializer
    %res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i32>, %demo)
    ret <4 x i32> %res
} declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v16i64_v16i32:
    ; CHECK:      # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2
    ; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3
    ; CHECK-NEXT: vpmovd %ymm0, %xmm0
    ; CHECK-NEXT: vpmovd %ymm1, %xmm1
    ; CHECK-NEXT: vpmovd %ymm2, %xmm2
    ; CHECK-NEXT: vpmovd %ymm3, %xmm3
    ; CHECK-NEXT: retq
}
define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" { ; CHECK-LABEL: trunc_v16i64_v16i8: ; CHECK: # %bb.0: ; CHECK-NEXT: vmovdqa (%rdi), %ymm0 ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1 ; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2 ; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3 ; CHECK-NEXT: vmovqvb %ymm3, %ymm2 ; CHECK-NEXT: vmovqvb %ymm2, %ymm1 ; CHECK-NEXT: vmovqvb %ymm1, %ymm0 ; CHECK-NEXT: vpmovqdb %ymm0, %xmm0 ; CHECK-NEXT: vpmovqdb %ymm1, %xmm1 ; CHECK-NEXT: vpmovqdb %ymm2, %xmm2 ; CHECK-NEXT: vpmovqdb %ymm3, %xmm3 ; CHECK-NEXT: vzeroupper ; CHECK-NEXT: retq ; %a = load <16 x i64>, <16 x i64>* %x ; %b = trunc <16 x i64> %a to <16 x i32> ; ret <16 x i8> %b } 

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" { ; CHECK-LABEL: trunc_v16i32_v16i8: ; CHECK: # %bb.0: ; CHECK-NEXT: vmovdqa (%rdi), %ymm0 ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1 ; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2 ; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3 ; CHECK-NEXT: vmovqvb %ymm3, %ymm2 ; CHECK-NEXT: vmovqvb %ymm2, %ymm1 ; CHECK-NEXT: vmovqvb %ymm1, %ymm0 ; CHECK-NEXT: vpmovqdb %ymm0, %xmm0 ; CHECK-NEXT: vpmovqdb %ymm1, %xmm1 ; CHECK-NEXT: vpmovqdb %ymm2, %xmm2 ; CHECK-NEXT: vpmovqdb %ymm3, %xmm3 ; CHECK-NEXT: vzeroupper ; CHECK-NEXT: retq ; %a = load <16 x i32>, <16 x i32>* %x ; %b = trunc <16 x i32> %a to <16 x i8> ; ret <16 x i8> %b } 

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" { ; CHECK-LABEL: trunc_v8i64_v8i8: 

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i64_v8i16:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:  vpmovqw %ymm1, %xmm1
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %a = load <8 x i64>, <8 x i64>* %x
    %b = trunc <8 x i64> %a to <8 x i8>
    ret <8 x i8> %b
}

define <8 x 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:  vpmovqw %ymm1, %xmm1
    ; CHECK-NEXT:  vzeroupper
    ; 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> %a to <8 x i16>
    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:  vpermilw 32(%rdi), %ymm1, %ymm0
}
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 [1.*#] ymm0 = ymm0[0,2,1,3]
    ; CHECK-AVX512-NEXT: retq

    %a = load <32 x i16>, <32 x i16>* %x
    %b = lshr <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>
    %c = trunc <32 x i16> %b to <32 x i8>
    ret <32 x i8> %c
}

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-VBMI:
      ; 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
    ; CHECK-VBMI-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>
    %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:

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
  define <32 x i8> @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
  define void @zext_v16i8_v16i64:<16 x i168, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
  define void @zext_v16i8_v16i64:<16 x i168, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {

xmm3[0], zero, zero, zero, xmm3[1], zero, zero, zero, xmm3[2], zero, zero, zero, xmm3[3], zero, zero, zero
; CHECK-NEXT: vpmovzwxq {{.*#+}} ymm1 =
xmm1[0], zero, zero, xmm1[1], zero, zero, xmm1[2], zero, zero, zero, xmm1[3], zero, zero, zero
; CHECK-NEXT: vpmovzxbq {{.*#+}} ymm0 =
xmm0[0], zero, zero, zero, xmm0[1], zero, zero, zero, xmm0[2], zero, zero, zero, xmm0[3], zero, zero, zero
; 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: vpmovsxbw %xmm0, %ymm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpmovsxwq %xmm1, %ymm1
; 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: vpmovsxwq %xmm3, %ymm3
; CHECK-NEXT: vpmovdqa %ymm2, 64(%rdi)
; CHECK-NEXT: vpmovdqa %ymm0, (%rdi)
; CHECK-NEXT: vpmovdqa %ymm3, 96(%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]
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:
   # %bb.0:
    CHECK-NEXT: vmovdqa (%rsi), %ymm2
    CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
    CHECK-NEXT: vmovdqa (%rdi), %ymm2 (%rdx)
    CHECK-NEXT: vpcmpeqd %ymm1, %ymm0, %k1
    CHECK-NEXT: kshiftrw $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
%
    %x = load <8 x i64>, <8 x i64>* %p
    %y = load <8 x i64>, <8 x i64>* %q
    %a = icmp eq <8 x i32> %s, %t
    %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
    store <8 x i64> %b, <8 x i64>* %r
ret void
}

define void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {   
CHECK-LABEL: vselect_split_v16i8_setcc:
   # %bb.0:
    CHECK-NEXT: vmovdqa (%rsi), %ymm2
    CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
    CHECK-NEXT: vmovdqa (%rdi), %ymm2 (%rdx)
    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
%
    %x = load <16 x i8>, <16 x i8>* %p
    %y = load <16 x i8>, <16 x i8>* %q
    %a = icmp eq <16 x i32> %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
}

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, i32 255>
; %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
; %d = icmp sgt <16 x i32> %c, zeroinitializer
; %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
; %f = trunc <16 x i32> %e to <16 x i8>
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, i32 255>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a>
%d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c, <16 x i32> %c
%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: kshiftlq $63, %k0, %k2
; CHECK-NEXT: kshiftrq $62, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-5, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $3, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $61, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-9, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $2, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $60, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-17, %rax
; CHECK-NEXT:  kshiftrd $61, %k2, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $60, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-33, %rax
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $5, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $59, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-65, %rax
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $4, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $58, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-129, %rax
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $7, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $57, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $9, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $55, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-513, %rax # imm = 0xFDFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $8, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $54, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $11, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $53, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $10, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $52, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $13, %k0, %k2
; CHECK-NEXT:    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 $14, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $49, %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 $48, %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 $16, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $47, %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 $47, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-131073, %rax # imm = 0xFFFFDFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $16, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $46, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-262145, %rax # imm = 0xFFFFBFFF
; 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 = 0xFFDFFFFF
; 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 = 0xFFFBFFFF
; 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 = 0xFF7FFFFF
; 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 = 0xFFFFFFFF
; 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 = 0xFFFFFFFF7FFFFFFFFF
; 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 = 0xFFFFFFFF7FFFFFFFFF
; 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 = 0xFFFFFFFF7FFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $31, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k0, %k0
; CHECK-NEXT:  kshiftrq $30, %k0, %k0
; CHECK-NEXT:  korq %k0, %k2, %k0
; CHECK-NEXT:  movabsq $.17179869185, %rax # imm = 0xFFFFFFFF7FFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $3, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $29, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $.34359738369, %rax # imm = 0xFFFFFFFF7FFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $2, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $28, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $.68719476737, %rax # imm = 0xFFFFFFFF7FFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $5, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $27, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-137438953473, %rax # imm = 0xFFFFFFFFDDDDDDDDDDDDDDDDDD
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $4, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $26, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-274877906945, %rax # imm = 0xFFFFFFFFDFDFDFDFDFDFDFDD
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $7, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $25, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-549755813889, %rax # imm = 0xFFFFFFFF7FFDFDFDFDFDFDFDF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $6, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $24, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-1099511627777, %rax # imm = 0xFFFFFFFF8FDFFDFDFDFDFDFDFD
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $9, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $23, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-2199023255553, %rax # imm = 0xFFFFFFFFD7FFDFDFDFDFDFDFDF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $8, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $22, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-4398046511105, %rax # imm = 0xFFFFFFFFC7FFDFDFDFDFDFDFDF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $11, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $21, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-8796093022209, %rax # imm = 0xFFFFFFFF87FFDFDFDFDFDFDFDF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $10, %k1, %k2

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; 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 = 0xFFF7FFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $18, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $12, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-4503599627370497, %rax # imm = 0xFFEFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $21, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $11, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-9007199254740993, %rax # imm = 0xFFDFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $20, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $10, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-18014398509481985, %rax # imm = 0xFFBFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $23, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $9, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-36028797018963969, %rax # imm = 0xFF7FFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $22, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $8, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $25, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $7, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-144115188075855873, %rax # imm = 0xFDFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0  
; CHECK-NEXT:  kshiftrd $24, %k1, %k2  
; CHECK-NEXT:  kshiftlq $63, %k2, %k2  
; CHECK-NEXT:  kshiftrq $6, %k2, %k2  
; CHECK-NEXT:  korq %k2, %k0, %k0  
; CHECK-NEXT:  movabsq $-28823037615171745, %rax # imm = 0xFBFFFFFFFFFFFFFFF  
; CHECK-NEXT:  kmovq %rax, %k2  
; CHECK-NEXT:  kandq %k2, %k0, %k0  
; CHECK-NEXT:  kshiftrd $27, %k1, %k2  
; CHECK-NEXT:  kshiftlq $63, %k2, %k2  
; CHECK-NEXT:  kshiftrq $5, %k2, %k2  
; CHECK-NEXT:  korq %k2, %k0, %k0  
; CHECK-NEXT:  movabsq $-57646075230323489, %rax # imm = 0xF7FFFFFFFFFFFFFF  
; CHECK-NEXT:  kmovq %rax, %k2  
; CHECK-NEXT:  kandq %k2, %k0, %k0  
; CHECK-NEXT:  kshiftrd $26, %k1, %k2  
; CHECK-NEXT:  kshiftlq $63, %k2, %k2  
; CHECK-NEXT:  kshiftrq $4, %k2, %k2  
; CHECK-NEXT:  korq %k2, %k0, %k0  
; CHECK-NEXT:  movabsq $-1152921504606846977, %rax # imm = 0xEFFFFFFFFFFFFFF  
; CHECK-NEXT:  kmovq %rax, %k2  
; CHECK-NEXT:  kandq %k2, %k0, %k0  
; CHECK-NEXT:  kshiftrd $29, %k1, %k2  
; CHECK-NEXT:  kshiftlq $63, %k2, %k2  
; CHECK-NEXT:  kshiftrq $3, %k2, %k2  
; CHECK-NEXT:  korq %k2, %k0, %k0  
; CHECK-NEXT:  movabsq $-2305843009213693953, %rax # imm = 0xDFFFFFFFFFFFFFFF  
; CHECK-NEXT:  kmovq %rax, %k2  
; CHECK-NEXT:  kandq %k2, %k0, %k0  
; CHECK-NEXT:  kshiftrd $31, %k1, %k2  
; CHECK-NEXT:  kshiftlq $62, %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 $30, %k1, %k1  
; CHECK-NEXT:  kshiftlq $1, %k0, %k0  
; CHECK-NEXT:  kshiftlq $63, %k1, %k1  
; CHECK-NEXT:  korq %k1, %k0, %k1  
; CHECK-NEXT:  vmovdq8 %ymm1, (%rsi) { %k1 }  
; CHECK-NEXT:  kshiftrq $32, %k1, %k1  
; CHECK-NEXT:  vmovdq8 %ymm0, 32(%rsi) { %k1 }  
; CHECK-NEXT:  vzeroupper
%ext = sext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

define void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: cmp_v8i64_zext:
; CHECK:
; %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpsrlq $63, %ymm1, %ymm1
; CHECK-NEXT: vpsrlq %63, %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: 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 = zext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v16i8:
; CHECK:
; %bb.0:
; CHECK-NEXT: vmovdqa {{.*#+}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT: vpsubb %xmm1, %xmm2, %xmm2
; CHECK-NEXT: vpmovzbxs b {{.*#+}} ymm1 =
; CHECK-NEXT: vpmovzxw b {{.*#+}} ymm0 =
; CHECK-NEXT: vpsllw %ymm1, %ymm0, %ymm1
; CHECK-NEXT: vpmovzxw b {{.*#+}} ymm2 =
; CHECK-NEXT: vpsrlw %ymm2, %ymm0, %ymm0
; CHECK-NEXT: vpor %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vpmovwb %ymm0, %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, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
%shl = shl <16 x i8> %a, %b
%lshr = lshr <16 x i8> %a, %b8
%or = or <16 x i8> %shl, %lshr
ret <16 x i8> %or
}
define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" { 
; CHECK-LABEL: var_rotate_v32i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpsllw $4, %ymm0, %ymm2
; CHECK-NEXT:  vpsrlw $4, %ymm0, %ymm3
; CHECK-NEXT:  vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT:  vpsllw $5, %ymm1, %ymm1
; CHECK-NEXT:  vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT:  vpsllw $2, %ymm0, %ymm2
; CHECK-NEXT:  vpsrlw $6, %ymm0, %ymm3
; CHECK-NEXT:  vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT:  vpaddb %ymm1, %ymm1, %ymm1
; CHECK-NEXT:  vpsllw $7, %ymm0, %ymm2
; CHECK-NEXT:  vpaddb %ymm0, %ymm0, %ymm0
; CHECK-NEXT:  vpternlogq $248, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT:  vpaddb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT:  retq
%b8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
%shl = shl <32 x i8> %a, %b
%lshr = lshr <32 x i8> %a, %b8
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}
define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" { 
; CHECK-LABEL: splatvar_rotate_v32i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpbroadcastb %xmm1, %xmm1
; CHECK-NEXT:  vpand {{.*}}(%rip), %xmm1, %xmm1
; CHECK-NEXT:  vpmovzxbq {{.*#+}} xmm2 = 
xmm1[0],zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT:  vpsllw %xmm2, %ymm0, %ymm3
; CHECK-NEXT:  vmovdqa {{.*#+}} xmm4 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8] 
; CHECK-NEXT:  vpsubb %xmm1, %xmm4, %xmm1
; CHECK-NEXT:  vpcmpeqd %xmm4, %xmm4, %xmm4
define <32 x i8> @splatconstant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: splatconstant_rotate_v32i8:
    %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 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>
    %or = or <32 x i8> %shl, %lshr
    ret <32 x i8> %or
}
; CHECK:
# %bb.0:
; CHECK-NEXT: vpsllw $4, %ymm0, %ymm1
; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm0
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
; CHECK-NEXT: retq
%shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8
4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4,
i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}
define <32 x i8> @splatconstant_rotate_mask_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: splatconstant_rotate_mask_v32i8:
; CHECK:
# %bb.0:
; CHECK-NEXT: vpsllw $4, %ymm0, %ymm1
; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm0
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
; CHECK-NEXT: vpand {{.*}}(%rip), %ymm0, %ymm0
; CHECK-NEXT: retq
%shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8
4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4,
i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, 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>
%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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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
  llDbCore
  llDbHost
  llDbSymbol

LINK_COMPONENTS
  Support
)

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign
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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" }

; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=4 -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_NPM,NOT_CGSCC_OPM,NOT_TUNIT_NPM,IS__TUNIT____,IS________OP_M,IS__TUNIT_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=3 -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM,IS__TUNIT____,IS________NP_M,IS__TUNIT_NPM
; RUN: opt -attributor-cgscc -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"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  ...
  NOT_TUNIT_NPM-LABEL: define
  {{[^@]+}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
  NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture 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_prefer512
  IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
;
; IS__TUNIT_NPM-NEXT: bb:
;
; IS__TUNIT_NPM-NEXT: [ARG1_PRIV:%.*]) = alloca <8 x i64>, align 64
;
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [ARG1_PRIV], align 64
;
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
;
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
;
; IS__TUNIT_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
;
; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
;
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
;
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
;
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
;
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 4, i1 false)
;
; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nonnull readonly align 64 dereferenceable(64) [[TMP]])
;
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
;
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
;
; IS__TUNIT_OPM-NEXT: ret void
;
;
; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
;
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
;
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
;
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
;
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 4, i1 false)
;
; IS__TUNIT_OPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
;
; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nonfree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]])
;
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
;
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
;
; IS__TUNIT_OPM-NEXT: ret void
;
};
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; IS__CGSCC_OPM-LABEL: define 
; IS__CGSCC_OPM-SAME: 
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM-LABEL: define 
; IS__CGSCC_NPM-SAME: 
; IS__CGSCC_NPM-NEXT: 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>* 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 
;
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
    ; NOT_TUNIT_NPM-LABEL: define
    ({{[^@]+}})@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
    ; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
        [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
    ; NOT_TUNIT_NPM-NEXT: bb:
    ; NOT_TUNIT_NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
    ; NOT_TUNIT_NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; NOT_TUNIT_NPM-NEXT:    ret void
    ;
    ; IS__TUNIT_NPM-LABEL: define
    ({{[^@]+}})@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
    ; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
        [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
    ; IS__TUNIT_NPM-NEXT: bb:
    ; IS__TUNIT_NPM-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
    ; IS__TUNIT_NPM-NEXT:    store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS__TUNIT_NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS__TUNIT_NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; IS__TUNIT_NPM-NEXT:    ret void
    ;
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %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 {
    ;
    ; IS__TUNIT_OPM-LABEL: define ({{[^@]+}})@avx512_legal512_prefer512_call_avx512_legal512_prefer256
    ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__TUNIT_OPM-NEXT: bb:
    ; IS__TUNIT_OPM-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT:    store <8 x i64> [[ARG1_PRIV]], align 32
    ; IS__TUNIT_OPM-NEXT:    [[TMP2:%.*]] = load <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP2]] 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__CGSCC_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_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_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
;
; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* 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: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[ARG1_PRIV]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(%arg) #1 {
    ; IS__UNIT_OPM-LABEL: define [[[^@]+]] @avx512_legal512_prefer256_call_avx512_legal512_prefer512
    ; IS__UNIT_OPM-SAME: (8 x i64)* nocapture writeonly [[ARG:%.*]])
    ; IS__UNIT_OPM-NEXT: bb:
      ; IS__UNIT_OPM-NEXT: [[TMP:.]] = alloca <8 x i64>, align 32
      ; IS__UNIT_OPM-NEXT: [[TMP2:.]] = alloca <8 x i64>, align 32
      ; IS__UNIT_OPM-NEXT: [[TMP3:.]] = bitcast <8 x i64>* [[TMP]] to i8*
      ; IS__UNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* i8* nocapture nonnull writeonly align 32
derereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__UNIT_OPM-NEXT: call fastcc void
    @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(%arg) nocapture nfree nonnull
dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nonnull readonly align 64 dereferenceable(64) [[TMP]]
    ; IS__UNIT_OPM-NEXT: [[TMP4:.]] = load <8 x i64>, <8 x i64>* [[TMP]], 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_legal512_prefer256_call_avx512_legal512_prefer512
    ; 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* i8* nocapture nonnull writeonly align 32
derereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__UNIT_NPM-NEXT: call fastcc void
    @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(%arg) noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP0]], <8 x i64>* [[TMP0]]
    ; IS__UNIT_NPM-NEXT: [[TMP4:.]] = load <8 x i64>, <8 x i64>* [[TMP]], 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_legal512_prefer256_call_avx512_legal512_prefer512
    ; IS__CGSCC_OPM-SAME: (8 x i64)* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
    ; IS__CGSCC_OPM-NEXT: bb:
      ; IS__CGSCC_OPM-NEXT: [[TMP:.]] = alloca <8 x i64>, align 32
      ; IS__CGSCC_OPM-NEXT: [[TMP2:.]] = alloca <8 x i64>, align 32
      ; IS__CGSCC_OPM-NEXT: [[TMP3:.]] = bitcast <8 x i64>* [[TMP]] to i8*
      ; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* i8* nocapture writeonly align 64
derereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__CGSCC_OPM-NEXT: call fastcc void
    @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(%arg) nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
derereferenceable(64) [[TMP]]
define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 { 
  ; IS__UNIT_OPM-LABEL: define [{[^@]+}] @avx512_legal256_prefer256_call_avx512_legal512_prefer256 
  ; IS__UNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]]) 
  ; IS__UNIT_OPM-NEXT: bb: 
  ; IS__UNIT_OPM-NEXT:  [TMP:.%.*] = alloca <8 x i64>, align 32 
  ; IS__UNIT_OPM-NEXT:  [TMP2:.%.*] = alloca <8 x i64>, align 32 
  ; IS__UNIT_OPM-NEXT:  [TMP3:.%.*] = bitcast <8 x i64>* [[TMP]] to i8* 
  ; IS__UNIT_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 
  dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false) 
  ; IS__UNIT_OPM-NEXT:  call fastcc void 
  @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree 
  nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull 
  readonly align 64 dereferenceable(64) [[TMP]]) 
  ; IS__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_legal256_prefer256_call_avx512_legal512_prefer256 
  ; 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:  call fastcc void 
  @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree 
  nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree preceded 
  readonly align 64 dereferenceable(64) [[TMP]]) 
  ; 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_legal256_prefer256_call_avx512_legal512_prefer256 
  ; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
open source used in cisco telemetry broker on prem 1.3.1

; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx512_legal256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nomain null writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nomain 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

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_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_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
    
    NOT_TUNIT_NPM-LABEL: define {
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  %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 {
  ...
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  ...
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  ...
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  ...
}
IS__TUNIT_NPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_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__TUNIT_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
IS__TUNIT_NPM-NEXT:  ret void

IS__CGSCC_OPM-LABEL: define {
  [[^@]+])@avx512_legal512_prefer256_call_avx512_legal256_prefer256
IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
IS__CGSCC_OPM-NEXT: bb:
  IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
  IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
  IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  IS__CGSCC_OPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
IS__CGSCC_OPM-NEXT:  ret void

IS__CGSCC_NPM-LABEL: define {
  [[^@]+])@avx512_legal512_prefer256_call_avx512_legal256_prefer256
IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
IS__CGSCC_NPM-NEXT: bb:
  IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
  IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
  IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  IS__CGSCC_NPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture 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_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>** %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>** %arg, <8 x i64>** readonly %arg1) #3 {

; NOT_TUNIT_NPM-LABEL: define

{{[^@]+}} @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>** nocapture 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_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>** noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>** [[ARG0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>** [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>** [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>** [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:  ret void
;
bb:

%tmp = load <8 x i64>, <8 x i64>** %arg1
store <8 x i64> %tmp, <8 x i64>** %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>** %arg) #4 {

; IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>** nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>** [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT:  call fastcc void 
@callee_avx2_legal256_prefer256_call_avx2 Legal512_prefer256(<8 x i64>** nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>** nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>** [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  
  NOT_TUNIT_NPM-NEXT: define (
    [|[@]+|]) @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256
  NOT_TUNIT_NPM-NEXT: bb:
  NOT_TUNIT_NPM-NEXT:  [[ARG:%.*]] = 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-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:  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:  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:  ret void
  
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  
  IS__TUNIT_OPM-NEXT: mmrd<br>define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  
  IS__TUNIT_OPM-NEXT: mmrd<br>
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void

; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void

; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture writeonly 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture writeonly 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_avx2Legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_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

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture writeonly 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_avx2Legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_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

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture writeonly 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:.%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:.%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:.%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked
; as 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")
     strictfp
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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    ; VEC256-LABEL: '@zext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; AVX512VL512-LABEL: '@zext256'
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; SKX512-LABEL: '@zext256'
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
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 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 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: %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 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: %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 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: %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 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 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 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 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 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 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 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 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL256-LABEL: 'sext512'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL512-LABEL: 'sext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 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
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>
    ret void
}
; 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 2 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'trunc256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'trunc256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = trunc <8 x i64> undef to <8 x i32>
%B = trunc <8 x i64> undef to <8 x i16>
%C = trunc <8 x i64> undef to <8 x i8>
%D = trunc <16 x i32> undef to <16 x i16>
%E = trunc <16 x i32> undef to <16 x i8>
%F = trunc <32 x i16> undef to <32 x i8>
ret void
}

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
  ; AVX-LABEL: 'zext256_vXi1'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
  ; 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 1 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
  ; AVX512VL256-LABEL: 'zext256_vXi1'
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 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 <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
; AVX512VL512-LABEL: 'zext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef
to <8 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>

; 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 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>

; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
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 4 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i64 = sext <16 x i1> undef to <16 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V32i64 = sext <32 x i1> undef to <32 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V64i64 = sext <64 x i1> undef to <64 x i64>

  ret i32 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 10 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 42 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'sext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to <32 x 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 3 for instruction: %V16i16 = 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 3 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; SKX512-LABEL: 'sext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16
define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
    %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
}
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 34 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL512-LABEL: 'trunc_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64>
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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//
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1.959 babel-plugin-syntax-jsx 6.18.0

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1.963 hashicorp-uuid 1.0.2

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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
* 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))
    ),
```

```bash
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType('room', Integer().subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 0))
    ),
```
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())

```
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) [^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` [^pyasn1] library implements ASN.1 support in pure-Python.

What is ASN.1

[^ASN.1]: <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>
[^pyasn1]: https://pypi.python.org/pypi/pyasn1/
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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.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
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.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
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.. toctree::
   :maxdepth: 2

/download

Changes
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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.

.. toctree::
   :maxdepth: 1

/changelog

License
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.. toctree::
   :maxdepth: 2

/license

Getting help
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Books on ASN.1
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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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procfs provides functions to retrieve system, kernel and process 
metrics from the pseudo-filesystem proc.

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mgo - MongoDB driver for Go

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1.994 tdb 1.44.5

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
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): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ..$/$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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

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

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Index: tdbsa/tdb.c

--- tdbsa.org/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
-
- Copyright (C) Andrew Tridgell              2005
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Theodore Ts'o
23-June-2007

---------------------------------------------------------------------

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

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

http://sourceforge.net/projects/e2fsprogs

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

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This is the Debian GNU/Linux prepackaged version of the ss
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This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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1.997 react-redux 7.2.2

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1.999 xmlsec 1.2.27-2

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

* Cordys R&D BV

* Cryptocom LTD

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ARCFOUR
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ARCTWO
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BLOWFISH
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CAMELIIA
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CAST128
The implementation of the CAST128 cipher is written by Steve Reid. Released into the public domain.

DES
The implementation of the DES cipher is written by Dana L. How, and released under the LGPL.

MD2
The implementation of MD2 is written by Andrew Kuchling, and hacked some by Andreas Sigfridsson and Niels Mller. Python Cryptography Toolkit license (essentially public domain).

MD4
This is almost the same code as for MD5 below, with modifications by Marcus Comstedt. Released into the public domain.

MD5
The implementation of the MD5 message digest is written by Colin Plumb. It has been hacked some more by Andrew Kuchling and Niels Mller. Released into the public domain.

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SHA1
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SHA224, SHA256, SHA384, and SHA512
Written by Niels Mller, using Peter Gutmann's SHA1 code as a model. Released under the LGPL.

Twofish
The implementation of the TWOFISH cipher is written by Ruud de Rooij. Released under the LGPL.

RSA
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1.1001 e2fsprogs 1.46.4-r0
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# In order to use this stub, the following makefile variables must be defined.
all:: image

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

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

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ..$/$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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

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

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===================================================================
--- 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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Version 2, June 1991

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This package was added to the e2fprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fprogs distribution, which can be found at:

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Grady Ward
3449 Martha Ct.
Arcata, CA  95521-4884

grady@netcom.com
gardy@northcoast.com

The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English
> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filesystem called PUBLIC on the University mainframe, because it was considered public domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?
That is the intention.

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The 35 level includes frequency classes 2-6 and words appearing in at least 11 of 12 dictionaries as indicated in the 12Dicts package. All words from the 12Dicts package have had likely inflections added via my inflection database.

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1.1018 cracklib 2.9.6-2
1.1018.1 Available under license:

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Version 2.1, February 1999

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^L

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

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

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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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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists =2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.
thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

------------------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
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> > the original license (before moving to sourceforge -- aka, 2.7) was
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> > GPL-2 ... it was a modified artistic license ... i didn't notice the
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place of a
library to dictact to application writes what license they should
be using.
thus LGPL-2.1 enters to fill this void.
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
> >
> > I am sympathetic. Guys, what do you reckon?
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> > My apologies for not chiming in in anything resembling a reasonable timeframe.
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>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.
This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3]) by rutherford.zen.co.uk with esmtp (Exim 4.50) id 1IcOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBBFEBEB6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> 
> -------- Forwarded message --------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> 
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.
>
> The license for my code in the Cracklib distribution is henceforth GPL.
>
> Happy now? :-)
>
> -a

1.1019 globals 11.12.0

1.1019.1 Available under license:

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1.1020 redis 4.1.4

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1.1021 json-iterator-go 1.1.12

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1.1022 libyaml 0.2.1 1
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1.1023 dhcp 4.4.1-2+deb10u1
1.1023.1 Available under license:
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0
Source: http://www.isc.org/downloads/dhcp
Files-Excluded:
   aclocal.m4
   bind
   compile
   config.*
   configure
   depcomp
   install-sh
   */Makefile.in
   missing
   doc/References.txt
   doc/References.html
1.1024 readline 7.0 5
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1.1034 nginx-module-image-filter 1.21.6-1~bullseye

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1.1036 dpkg 1.19.7

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1.1037.1 Available under license:

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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
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You install the library by running these commands:

perl Makefile.PL  
make  
make test  
make install

Please report any bugs/suggestions to <gbarr@pobox.com>

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=head1 NAME

Date::Language::Hungarian - Magyar format for Date::Format

=head1 SYNOPSIS

my $lang = Date::Language->new('Hungarian');
print $lang->time2str("%a %b %e %T %Y", time);

@lt = localtime(time);
print $lang->time2str($template, time);
print $lang->strftime($template, @lt);
print $lang->time2str($template, time, $zone);
print $lang->strftime($template, @lt, $zone);
print $lang->ctime(time);
print $lang->asctime(@lt);

print $lang->ctime(time, $zone);
print $lang->asctime(@lt, $zone);

See L<Date::Format>.

=head1 AUTHOR

Paula Goddard (paula -at- paulacska -dot- com)

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---
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

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* /opt/cola/permits/1102484013_1603771753.13/0/libtimedate-perl-2-3000-orig-1-tar-gz/TimeDate-
2.30/META.yml
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=encoding utf8

=head1 NAME

Date::Language::Bulgarian - localization for Date::Format

=head1 DESCRIPTION

This is Bulgarian localization for Date::Format.
It is important to note that this module source code is in utf8.
All strings which it outputs are in utf8, so it is safe to use it
currently only with English. You are left alone to try and convert
the output when using different Date::Language::* in the same application.
This should be addressed in the future.

=head1 SYNOPSIS

use strict;
use warnings;
use Date::Language;
local $=/=;$;
my $template ="%a %b %e %T %Y (%Y-%m-%d %H:%M:%S)";
my $time=1290883821; #or just use time();
my $lt = localtime($time);
my %languages = qw(English GMT German EEST Bulgarian EET);
binmode(select,:utf8);
foreach my $l(keys %languages){
  my $lang = Date::Language->new($l);
  my $zone = $languages{$l};
  print $/>. "$l $zone";
  print $lang->time2str($template, $time);
  print $lang->time2str($template, $time, $zone);
  print $lang->strftime($template, $lt);
}

=head1 AUTHOR

Krasimir Berov (berov@cpan.org)

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1.1038 libpsl 0.21.0-1.2
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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.

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.

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1.1052 pflag 1.0.0

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1.1053 **type-detect 4.0.8**

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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@item
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@enumerate
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with the Library, with the complete machine-readable "work that
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@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

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

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@smallexample
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@end example

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signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
@end example

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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
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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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1.1074 docker-go-events 0.0.0-20190806004212-e31b211e4f1c

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1.1078 debug 3.1.0

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1.1079 fs.realpath 1.0.0

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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.

```llvm
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
}
```

Test that early if conversion produces LOCR with operands of the right register classes.

```llvm
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
}
```

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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, 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, double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

; NOTE: Assertions have been autogenerated by tools/update_llvm_test_checks.py
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  ; CHECK-LABEL: TestSelect:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  pushq %rbx
  ; CHECK-NEXT:  .cfi_def_cfa_offset 16
  ; CHECK-NEXT:  subq $32, %rsp
  ; CHECK-NEXT:  .cfi_def_cfa_offset 48
  ; CHECK-NEXT:  .cfi_offset %rbx, -16
  ; CHECK-NEXT:  movaps %xmm1, {[[-0-9]+]}(%r{{[sb]}}p) # 16-byte Spill
  ; CHECK-NEXT:  movaps %xmm0, (%rsp) # 16-byte Spill
  ; CHECK-NEXT:  callq __gttf2
  ; CHECK-NEXT:  movl %eax, %ebx
  ; CHECK-NEXT:  movaps (%rsp), %xmm0 # 16-byte Reload
  ; CHECK-NEXT:  movaps {[[-0-9]+]}(%r{{[sb]}}p), %xmm1 # 16-byte Reload
  ; CHECK-NEXT:  callq __subtf3
  ; CHECK-NEXT:  testl %ebx, %ebx
  ; CHECK-NEXT:  jg .LBB0_2
  ; CHECK-NEXT:  xorps %xmm0, %xmm0
  ; LBB0_2:
  ; CHECK-NEXT:  addq $32, %rsp
  ; CHECK-NEXT:  .cfi_def_cfa_offset 16
  ; CHECK-NEXT:  popq %rbx
  ; CHECK-NEXT:  .cfi_def_cfa_offset 8
  ; CHECK-NEXT:  retq
  ; %cmp = fcmp ogt fp128 %a, %b
  ; %sub = fsub fp128 %a, %b
  ; %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  ; CHECK-LABEL: TestFabs:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  andps {{.*}}(%rip), %xmm0
  ; CHECK-NEXT:  retq
  ; %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  ; CHECK-LABEL: TestCopysign:
  ; CHECK:       # %bb.0:

define fp128 @TestFneg(fp128 %a) {
    # %bb.0:
    pushq %rax
    .cfi_def_cfa_offset 16
    movaps %xmm0, %xmm1
    callq __multf3
    xorps {{.*}}(%rip), %xmm0
    popq %rax
    .cfi_def_cfa_offset 8
    retq
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL0000000000000000800000000000000000000000, %mul
ret fp128 %res
}

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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
}
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
; 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: %8 = add i32 %[[C1]], 7
; CHECK-NEXT: %9 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %10 = load volatile i8, i8* %8
; CHECK-NEXT: %11 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %12 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

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@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %\[C1:const[0-9]?\] = bitcast i32 805874752 to i32
; CHECK-DAG: %\[C2:const[0-9]?\] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %\[C2\] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %\[M1:const_mat[0-9]?\] = add i32 %\[C2\], 4
; CHECK-NEXT: %2 = inttoptr i32 %\[M1\] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %\[M2:const_mat[0-9]?\] = add i32 %\[C2\], 32
; CHECK-NEXT: %4 = inttoptr i32 %\[M2\] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %\[M3:const_mat[0-9]?\] = add i32 %\[C2\], 62
; CHECK-NEXT: %6 = inttoptr i32 %\[M3\] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %\[C1\] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %\[M4:const_mat[0-9]?\] = add i32 %\[C1\], 22
; CHECK-NEXT: %10 = inttoptr i32 %\[M4\] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --
scrub-attributes
; RUN: opt -S -argpromotion < %s | FileCheck %s
This should promote

```c
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:  
  CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32  
  CHECK-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32  
  CHECK-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*  
  CHECK-NEXT:  call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)  
  CHECK-NEXT:  [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]  
  CHECK-NEXT:  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])  
  CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32  
  CHECK-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2  
  CHECK-NEXT:  ret void
}

bb:
%tmp = alloca <8 x i64>, align 32  
%tmp2 = alloca <8 x i64>, align 32  
%tmp3 = bitcast <8 x i64>* %tmp to i8*  
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)  
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)  
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32  
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2  
ret void
}
```
; This should promote define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp1 = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp1 to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
    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_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    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 {
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define ([^@]+)@avx512_legal512_prefer256_call_avx512_legal512_prefer512
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
  ; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT: ret void
  
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  ; CHECK-LABEL: define ([^@]+)@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
  ; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
  ; CHECK-NEXT: ret void
  
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  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
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
  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 {
  bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    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) #1 {  
  bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
cHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
cHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_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_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp3)
%tmp
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
 ; CHECK-LABEL: define
 {{[^@]+}}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
 ; CHECK-SAME: (i32 [[X:.*]], 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_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
 ; CHECK-LABEL: define {{[^@]+}}@scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
 ; CHECK-SAME: (i32* [[B:.*]])
 ; CHECK-NEXT: [[A:.*]] = alloca i32
 ; CHECK-NEXT: store i32 1, i32* [[A]]
 ; CHECK-NEXT: [[A_VAL:.*]] = load i32, i32* [[A]]
 ; CHECK-NEXT: [[B_VAL:.*]] = load i32, i32* [[B]]
 ; CHECK-NEXT: [[C:.*]] = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [[A:VAL]], i32 [[B:VAL]])
 ; CHECK-NEXT: ret i32 [[C]]
 :
 %A = alloca i32
 store i32 1, i32* %A
 %C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
 ret i32 %C
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32* %Y) #2 {
 ; CHECK-LABEL: define
 {{[^@]+}}@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
 ; CHECK-SAME: (i32 [[X:.*]], 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_legal256_prefer256(i32* %B) #2 {
; CHECK-LABEL: define {{[^@]+}}@scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT: [[A:%.*]] = alloca i32
; CHECK-NEXT: store i32 1, i32* [[A]]
; CHECK-NEXT: [[A_VAL:%.*]] = load i32, i32* [[A]]
; CHECK-NEXT: [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT: [[C:%.*]] = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT: ret i32 [[C]]
;
%A = alloca i32
store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %A, i32* %B)
ret i32 %C
}
; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlining hint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlining hint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlining hint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlining hint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlining hint 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 -triple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512

RUN: llc < %s -triple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for vpmaddwd+vpadd

RUN: llc < %s -triple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512

RUN: llc < %s -triple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512

RUN: llc < %s -triple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512

RUN: llc < %s -triple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cannonlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

RUN: llc < %s -triple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

RUN: llc < %s -triple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

RUN: llc < %s -triple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32> %a, <16 x i32> %b, <16 x i32> %c) "min-legal-vector-width"="256" {
  %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 @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: vpmaddwd32 (%rdi), %ymm1
  ; CHECK-NEXT: vpmaddwd32 (%rsi), %ymm1, %ymm1
  ; CHECK-NEXT: retq
  %1 = load <32 x i16>, <32 x i16>* %APtr
  %2 = load <32 x i16>, <32 x i16>* %BPtr
  %3 = mul %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:
; CHECK-NEXT:     vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:     vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:     vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:     vzeroupper
; CHECK-NEXT:     retq

%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:
; 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, 32(%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" {

define i32 @_Z9test_charPCSi_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    ; CHECK-LABEL:  _Z9test_charPCSi_256:
    ; CHECK:      # %bb.0: # %entry
    ; CHECK-NEXT:   movl %edx, %eax
    ; CHECK-NEXT:   vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:   xorl %ecx, %ecx
    ; CHECK-NEXT:   vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:   vpxor %xmm2, %xmm2, %xmm2
    ; CHECK-NEXT:   .p2align 4, 0x90
    ; CHECK-NEXT:   .LBB8_1: # %vector.body
    ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:   vpmovsxbw 16(%rdi,%rcx), %ymm3
    ; CHECK-NEXT:   vpmovsxbw (%rdi,%rcx), %ymm4
    ; CHECK-NEXT:   vpmovsxbw 16(%rsi,%rcx), %ymm5
    ; CHECK-NEXT:   vpmaddwd %ymm3, %ymm5, %ymm3
    ; CHECK-NEXT:   vpaddd %ymm2, %ymm3, %ymm2
    ; CHECK-NEXT:   vpmovsxbw (%rsi,%rcx), %ymm3
    ; CHECK-NEXT:   vpmaddwd %ymm4, %ymm3, %ymm
    ; CHECK-NEXT:   vpaddd %ymm1, %ymm3, %ymm1
    ; CHECK-NEXT:   addq $32, %rcx
    ; CHECK-NEXT:   cmpq %rcx, %rax
    ; CHECK-NEXT:   jne .LBB8_1
    ; 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:   cmpq %rcx, %rax
    ; CHECK-NEXT:   jne .LBB8_1
    ; 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:   cmpq %rcx, %rax
    ; CHECK-NEXT:   jne .LBB8_1
    ; 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:   cmpq %rcx, %rax
    ; CHECK-NEXT:   jne .LBB8_1
    ; CHECK-NEXT:   .LBB8_1: # %vector.body
    ; 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, %ymm1
    ; CHECK-NEXT:   vpaddd %ymm1, %xmm0, %xmm0
    ; CHECK-NEXT:   vpaddd %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:   vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:   vshufd {{[*#+]}} %xmm1 = %xmm0[2,3,0,1]
    ; CHECK-NEXT:   vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:   vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:   vshufd {{[*#+]}} %xmm1 = %xmm0[1,1,2,3]
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
  ; =>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:    vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vmovd %xmm0, %eax
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  ; CHECK-NEXT:    jne .LBB9_1

  ; CHECK-NEXT:    # %bb.2: %middle.block
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq

  entry:
  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>*, <32 x i8>* %5, align 1

  %wide.load = load <32 x i8>, <32 x i8>* %5, align 1

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%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 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 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%

; = 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

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entry:
   br label %vector.body

vector.body:

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:

%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> %bin.rdx, undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
  ; CHECK-LABEL: sad_16i8_512:
  ; CHECK:     # %bb.0: # %entry
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT: .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB11_1: # %vector.body
  ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
  ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
  ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:    addq $4, %rax
  ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; 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> [ zeroinitialzer, %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>*
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%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>
%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>
%rdx.shuf5 = shufflevector <16 x i32> %bin.rdx4, <16 x i32> undef, <16 x i32> <i32 0, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12

define void @sbtol6f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" 
  {;
    CHECK-LABEL: sbtol6f32_256:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: kshiftrw $8, %k0, %k1
    ; CHECK-NEXT: vpmovm2d %k1, %ymm0
    ; CHECK-NEXT: cvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT: vpmovm2d %k0, %ymm1
    ; CHECK-NEXT: cvtdq2ps %ymm1, %ymm1
    ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
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
    ; 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:    vpmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:    vpmovaps %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, %zmm0
  CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
  CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
  CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
  CHECK-NEXT: vmovaps %zmm1, (%rdi)
  CHECK-NEXT: vzeroupper
  CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = sitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %1, <16 x double>* %res
  ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  CHECK-LABEL: ubto16f32_256:
  CHECK:    # %bb.0:
  CHECK-NEXT: vpmovw2m %ymm0, %k0
  CHECK-NEXT: kshiftrw $8, %k0, %k1
  CHECK-NEXT: vpmovm2d %k1, %ymm0
  CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
  CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
  CHECK-NEXT: vpmovm2d %k0, %zmm0
  CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
  CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
  CHECK-NEXT: vmovaps %zmm0, 32(%rdi)
  CHECK-NEXT: vmovaps %zmm1, (%rdi)
  CHECK-NEXT: vzeroupper
  CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  CHECK-LABEL: ubto16f32_512:
  CHECK:    # %bb.0:
  CHECK-NEXT: vpmovw2m %ymm0, %k0
  CHECK-NEXT: vpmovm2d %k0, %zmm0
  CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
  CHECK-NEXT: vsubmit64x4 %1, %zmm0, %ymm0
  CHECK-NEXT: vsubmit64x4 %1, %zmm0, %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 = vthen %a, %a, %a
  store <16 x float> %1, <16 x float>* %res
  ret void
}
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f64_256:
  ; CHECK:  # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:  vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:  vpsrld $31, %ymm2, %ymm2
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm2
    ; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:  vmovaps %ymm3, (%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_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f64_512:
  ; CHECK:  # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:  vpsrld $31, %zmm0, %zmm0
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %zmm1
    ; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %yimm0
    ; CHECK-NEXT:  vcvtdq2pd %zmm0, %yimm0
    ; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {;
; CHECK-LABEL: test_16f32toub_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [ %k1 ] [ z ]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {;
; CHECK-LABEL: test_16f32toub_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %zmm0, %zmm0 [ %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
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 <16 x i8>* @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
  ; CHECK-AVX512-LABEL: mul256:
  ; CHECK-AVX512:       # %bb.0:
  ; CHECK-AVX512-NEXT:    vmovdqa (%rdi), %ymm0
  ; CHECK-AVX512-NEXT:    vmovdqa 32(%rdi), %ymm1
  ; CHECK-AVX512-NEXT:    vmovdqa (%rsi), %ymm2
  ; CHECK-AVX512-NEXT:    vmovdqa 32(%rsi), %ymm3
  ; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm4 = ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
  ; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm5 = ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
  ; CHECK-AVX512-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
  ; CHECK-AVX512-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
  ; CHECK-AVX512-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
  ; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm3 = ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
  ; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm1 = ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
  ; CHECK-AVX512-NEXT:    vpmullw %ymm3, %ymm1, %ymm1
  ; CHECK-AVX512-NEXT:    vpmullw %ymm3, %ymm1, %ymm1
  ; CHECK-AVX512-NEXT:    vpmullw %ymm3, %ymm1, %ymm1
  ; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm3 = ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
  ; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
ymmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,31,31]
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm3, %ymm3
; CHECK-AVX512-NEXT: vpunccklbw {{.*#+}} ymm2 =
ymmm2[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,16,16,17,17,18,18,19,19,20,20,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpunccklbw {{.*#+}} ymm0 =
ymmm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,16,16,17,17,18,18,19,19,20,20,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpunccklbw %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-AVX512-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-AVX512-NEXT: vzeroupper

; CHECK-AVX512-NEXT: vzeroupper
; CHECK-AVX512-NEXT: retq

; ; CHECK-VBMI-LABEL: mul256:
; ; CHECK-VBMI: # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT: vpuncckhbw {{.*#+}} ymm4 =
ymmm3[8,8,9,9,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,31,31]
; CHECK-VBMI-NEXT: vpuncckhbw {{.*#+}} ymm5 =
ymmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,31,31]
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vpuncckhbw {{.*#+}} ymm3 =
ymmm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,16,16,17,17,18,18,19,19,20,20,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpuncckhbw {{.*#+}} ymm1 =
ymmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,16,16,17,17,18,18,19,19,20,20,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm3 =
[0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,28,30,32,32,34,36,38,39,39,39,39,39,39,39]
; CHECK-VBMI-NEXT: vpermt2b %ymm4, %ymm3, %ymm1
; CHECK-VBMI-NEXT: vpuncckhbw {{.*#+}} ymm4 =
ymmm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,31,31]
; CHECK-VBMI-NEXT: vpuncckhbw {{.*#+}} ymm5 =
ymmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,31,31]
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vpuncckhbw {{.*#+}} ymm2 =
ymmm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,16,16,17,17,18,18,19,19,20,20,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpuncckhbw {{.*#+}} ymm0 =
ymmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,16,16,17,17,18,18,19,19,20,20,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT: vpermt2b %ymm4, %ymm3, %ymm0
; CHECK-VBMI-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-VBMI-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-VBMI-NEXT: vzeroupper
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" { 
  ; CHECK-VBMI-LABEL: mul512:
  ; CHECK-VBMI:       # %bb.0:
  ; CHECK-VBMI-NEXT:  vmovdq64 (%rdi), %zmm0
  ; CHECK-VBMI-NEXT:  vmovdq64 (%rsi), %zmm1
  ; CHECK-VBMI-NEXT:  v punpckhbw {{.*#+}} %zmm2 =
  zmm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
  ; CHECK-VBMI-NEXT:  v punpckhbw {{.*#+}} %zmm3 =
  zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
  ; CHECK-VBMI-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
  ; CHECK-VBMI-NEXT:  vpmullw %zmm0, %zmm3, %zmm0
  ; CHECK-VBMI-NEXT:  vzeroupper
};

define void @mul512(<64 x i8>* %a, <64 x i8>* %b) { 
  ; CHECK-AVX512-LABEL: mul512:
  ; CHECK-AVX512:       # %bb.0:
  ; CHECK-AVX512-NEXT:  vmovdq6464 (%rdi), %zmm0
  ; CHECK-AVX512-NEXT:  vmovdq6464 (%rsi), %zmm1
  ; CHECK-AVX512-NEXT:  v punpckhbw64 {{.*#+}} %zmm2 =
  zmm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
  ; CHECK-AVX512-NEXT:  v punpckhbw64 {{.*#+}} %zmm3 =
  zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
  ; CHECK-AVX512-NEXT:  vpmullw64 %zmm2, %zmm3, %zmm2
  ; CHECK-AVX512-NEXT:  vpmullw64 %zmm0, %zmm3, %zmm0
  ; CHECK-AVX512-NEXT:  vzeroupper
};

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" { 
  ; CHECK-VBMI-LABEL: mul512:
  ; CHECK-VBMI:       # %bb.0:
  ; CHECK-VBMI-NEXT:  vmovdq6464 (%rdi), %zmm0
  ; CHECK-VBMI-NEXT:  vmovdq6464 (%rsi), %zmm1
  ; CHECK-VBMI-NEXT:  v punpckhbw64 {{.*#+}} %zmm2 =
  zmm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
  ; CHECK-VBMI-NEXT:  v punpckhbw64 {{.*#+}} %zmm3 =
  zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
  ; CHECK-VBMI-NEXT:  vpmullw64 %zmm2, %zmm3, %zmm2
  ; CHECK-VBMI-NEXT:  vpmullw64 %zmm0, %zmm3, %zmm0
  ; CHECK-VBMI-NEXT:  vzeroupper
};

define void @mul512(<64 x i8>* %a, <64 x i8>* %b) { 
  ; CHECK-AVX512-LABEL: mul512:
  ; CHECK-AVX512:       # %bb.0:
  ; CHECK-AVX512-NEXT:  vmovdq6464 (%rdi), %zmm0
  ; CHECK-AVX512-NEXT:  vmovdq6464 (%rsi), %zmm1
  ; CHECK-AVX512-NEXT:  v punpckhbw64 {{.*#+}} %zmm2 =
  zmm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
  ; CHECK-AVX512-NEXT:  v punpckhbw64 {{.*#+}} %zmm3 =
  zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
  ; CHECK-AVX512-NEXT:  vpmullw64 %zmm2, %zmm3, %zmm2
}
; CHECK-VPBMI-NEXT: vpunpcklbw {{.*#+}} zmm1 =
  zmm1[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VPBMI-NEXT: vpunpcklbw {{.*#+}} zmm0 =
  zmm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VPBMI-NEXT: vpmullw %zmm1, %zmm0, %zmm0
; CHECK-VPBMI-NEXT: vmovdqa64 {{.*#+}} zmm1 =
  [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,86,88,90,92,94,96,98,100,102,104,106,108,110,112,114,116,118,120,122,124,126]
; CHECK-VPBMI-NEXT: vpermib %zmm2, %zmm0, %zmm1
; CHECK-VPBMI-NEXT: vmovdqa64 %zmm1, (%rdx)
; CHECK-VPBMI-NEXT: vzeroupper
; CHECK-VPBMI-NEXT: retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {  
; CHECK-LABEL: mload_v4i32:  
; CHECK:    # %bb.0:  
; CHECK-NEXT: vptestnmd %xmm0, %xmm0, %k1  
; CHECK-NEXT: vptestnmd (%rdi), %xmm1, %xmm0 { %k1 }  
; CHECK-NEXT: retq  
%mask = icmp eq <4 x i32> %trigger, zeroinitializer  
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i31> %mask, <4 x i32> %dst)  
ret <4 x i32> %res  
}  
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v16i64_v16i32:  
; CHECK:    # %bb.0:  
; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2  
; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3  
; CHECK-NEXT: vpmovqd %ymm0, %xmm0  
; CHECK-NEXT: vpmovqd %ymm1, %xmm1  
; CHECK-NEXT: vpmovqd %ymm3, %ymm2  
; CHECK-NEXT: vpmovqd %ymm0, %xmm0  
; CHECK-NEXT: vpmovqd %ymm1, %xmm1  
; CHECK-NEXT: vpmovqd %ymm3, %ymm2  
; CHECK-NEXT: vinserti128 %ymm1, %ymm0, %ymm0
define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: trunc_v16i64_v16i8:  
    ; CHECK: # %bb.0:  
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
    ; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2  
    ; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3  
    ; CHECK-NEXT: vpmovqb %ymm3, %xmm3  
    ; CHECK-NEXT: vpmovqb %ymm2, %xmm2  
    ; CHECK-NEXT: vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]  
    ; CHECK-NEXT: vpmovqb %ymm1, %xmm1  
    ; CHECK-NEXT: vpmovqb %ymm0, %xmm0  
    ; CHECK-NEXT: vpmovdqa 32(%rdi), %ymm1  
    ; CHECK-NEXT: vpmovdqa (%rdi), %ymm0  
    ; CHECK-NEXT: vzeroupper  
    ; CHECK-NEXT: retq  
    %a = load <16 x i64>, <16 x i64>* %x  
    %b = trunc <16 x i64> %a to <16 x i32>  
    ret <16 x i8> %b  
}

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: trunc_v16i32_v16i8:  
    ; CHECK: # %bb.0:  
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
    ; CHECK-NEXT: vpmovdb %ymm3, %xmm3  
    ; CHECK-NEXT: vpmovdb %ymm2, %xmm2  
    ; CHECK-NEXT: vpmovdqa 32(%rdi), %ymm1  
    ; CHECK-NEXT: vpmovdqa (%rdi), %ymm0  
    ; CHECK-NEXT: vzeroupper  
    ; CHECK-NEXT: retq  
    %a = load <16 x i32>, <16 x i32>* %x  
    %b = trunc <16 x i32> %a to <16 x i8>  
    ret <16 x i8> %b  
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: trunc_v8i64_v8i8:  
    ; CHECK: # %bb.0:  
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
    ; CHECK-NEXT: retq  
    %a = load <16 x i32>, <16 x i32>* %x  
    %b = trunc <16 x i32> %a to <16 x i8>  
    ret <16 x i8> %b  
}
define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: trunc_v8i64_v8i16:  
  ; CHECK:    # %bb.0:  
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
  ; CHECK-NEXT: vpmovqw %ymm1, %xmm1  
  ; CHECK-NEXT: vpmovqw %ymm0, %xmm0  
  ; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  %a = load <8 x i64>, <8 x i64>* %x  
  %b = trunc <8 x i64> %a to <8 x i8>  
  ret <8 x i8> %b  
}  

define <8 x 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: vzeroupper  
  ; CHECK-NEXT: retq  
  %a = load <8 x i64>, <8 x i64>* %x  
  %b = lshr <8 x i64> %a to <8 x i16>  
  ret <8 x i16> %b  
}  

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 [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 to <16 x i16>  
  ret <16 x i16> %b  
}  

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 [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 to <16 x i16>  
  ret <16 x i16> %b  
}
define <32 x i8> @trunc_v32i16_v32i8_zeros(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeros:
    ; 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
    %a = load <32 x i16>, <32 x i16>* %x
    %b = lshr <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, 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 <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, 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]
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: vpcksswb %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: vpermi2b 32(%rdi), %ymm0
; CHECK-VBMI-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> @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: 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: vpmovzxwq {{.*#+}} ymm2 = xmm2[0],zero,zero,xmm2[1],zero,zero,zero,xmm2[2],zero,zero,zero,xmm2[3],zero,zero,zero
; CHECK-NEXT: vextact128 $1, %ymm1, %ymm1
; CHECK-NEXT: vpsufhd {{.*#+}} xmm3 = xmm1[2,3,0,1]
; CHECK-NEXT: vpmovzxwq {{.*#+}} ymm3 = xmm3[0],zero,zero,xmm3[1],zero,zero,zero,xmm3[2],zero,zero,zero,xmm3[3],zero,zero,zero
; CHECK-NEXT: vpmovzxwq {{.*#+}} ymm1 = xmm1[0],zero,zero,xmm1[1],zero,zero,zero,xmm1[2],zero,zero,zero,xmm1[3],zero,zero,zero
}
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: vpmovzbq {{.*#+}} ymm0 = xmm0[0],zero,zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT: vpmovzxbq {{.*#+}} ymm0 = xmm0[0],zero,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: vmovdqa %ymm2, 32(%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 @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)
%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: vmovdqa32 (%rsi), %ymm3
; CHECK-NEXT: vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 [%k2]
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 [%k1]
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, %xmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %p
%b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255> %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255> %d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
%f = trunc <16 x i32> %e to <16 x i8>
ret <16 x i8> %f
}
define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:   vpackusdw 32(%rdi), %ymm0, %ymm0
  ; CHECK-NEXT:   vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
  ; CHECK-NEXT:   vpmovuswb %ymm0, (%rsi)
  ; CHECK-NEXT:   vzeroupper
  ; CHECK-NEXT:   retq
  %a = load <16 x i32>, <16 x i32>* %p
  %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
  %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %a
  %d = icmp sgt <16 x i32> %c, zeroinitialzier
  %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitialzier
  %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 %k1, %k0, %k1
  ; CHECK-NEXT:   movq $-3, %rax
  ; CHECK-NEXT:   kmovq %rax, %k2
  ; CHECK-NEXT:   kandq %k2, %k1, %k1
  ; CHECK-NEXT:   kshiftrq $63, %k0, %k2
  ; CHECK-NEXT:   kandq %k2, %k1, %k1
  ; CHECK-NEXT:   kshiftrq $62, %k2, %k2
  ; CHECK-NEXT:   korq %k2, %k1, %k1
  ; CHECK-NEXT:   movq $-5, %rax
  ; CHECK-NEXT:   kmovq %rax, %k2
  ; CHECK-NEXT:   kandq %k2, %k1, %k1
  ; CHECK-NEXT:   kshiftrd %k3, %k0, %k2
  ; CHECK-NEXT:   kandq %k2, %k1, %k1
  ; CHECK-NEXT:   kshiftrq $63, %k2, %k2
  ; CHECK-NEXT:   kshiftrq $61, %k2, %k2

; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-9, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $2, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftq $60, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-17, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $5, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftq $59, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-33, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $4, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftq $58, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-65, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $7, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftq $57, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-129, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $6, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftq $56, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $9, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftq $55, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-513, %rax # imm = 0xFDFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $8, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftq $63, %k2, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $47, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-131073, %rax # imm = 0xFFFDFFFF
; 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 $46, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-262145, %rax # imm = 0xFFBFFFFF
; 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 = 0xFFFF7FFFFF
; 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 = 0xFFDFFFFF
; 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 = 0xFFFDFFFFFF
; 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 = 0xFF7FFFFF
; 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 = 0xFF7FFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; 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, %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 = 0xFFFFFFFFFFFFFF
; 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 = 0xFFFFFFFFFDFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftlq $63, %k1, %k2
; CHECK-NEXT:    kshiftrq $30, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-17179869185, %rax # imm = 0xFFFFFFFFFBFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $5, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $29, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-34359738369, %rax # imm = 0xFFFFFFFFF7FFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $2, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $28, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-68719476737, %rax # imm = 0xFFFFFFFF7FFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $5, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $27, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-137438953473, %rax # imm = 0xFFFFFFFFFDFFFFFFFF
movabsq $-17592186044417, %rax # imm = 0xFFFFFFFFFFFFFF
kmovq %rax, %k2
candq %k2, %k0, %k0
shiftrd $13, %k1, %k2
shifthlq $63, %k2, %k2
shiftrq $19, %k2, %k2
kandq %k2, %k0, %k0
movabsq $-35184372088833, %rax # imm = 0xFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
shiftrd $12, %k1, %k2
shifthlq $63, %k2, %k2
shiftrq $18, %k2, %k2
kandq %k2, %k0, %k0
movabsq $-70368744177665, %rax # imm = 0xFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
shiftrd $15, %k1, %k2
shifthlq $63, %k2, %k2
shiftrq $17, %k2, %k2
kandq %k2, %k0, %k0
movabsq $-140737488355329, %rax # imm = 0xFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
shiftrd $14, %k1, %k2
shifthlq $63, %k2, %k2
shiftrq $16, %k2, %k2
kandq %k2, %k0, %k0
movabsq $-281474976710657, %rax # imm = 0xFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
shiftrd $17, %k1, %k2
shifthlq $63, %k2, %k2
shiftrq $15, %k2, %k2
kandq %k2, %k0, %k0
movabsq $-562949953421313, %rax # imm = 0xFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
shiftrd $19, %k1, %k2
shifthlq $63, %k2, %k2
shiftrq $17, %k2, %k2
kandq %k2, %k0, %k0
movabsq $-1125899906842625, %rax # imm = 0xFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
shiftrd $19, %k1, %k2
shifthlq $63, %k2, %k2
shiftrq $13, %k2, %k2
; CHECK-NEXT:  kshiftrq $6, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-288230376151711745, %rax # imm = 0xFBFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $27, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $4, %k2, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-576460752303423489, %rax # imm = 0xF7FFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $26, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $3, %k2, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-1152921504606846977, %rax # imm = 0xEDFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $29, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $2, %k2, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-2305843009213693953, %rax # imm = 0xDFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $28, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $1, %k2, %k2
; CHECK-NEXT:  kandq %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 $0, %k2, %k0
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $30, %k1, %k1
; CHECK-NEXT:  kshiftlq $1, %k0, %k0
; CHECK-NEXT:  kshiftrq $1, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k1, %k1
; CHECK-NEXT:  kshiftrq $1, %k1, %k1
; CHECK-NEXT:  kandq %k1, %k0, %k1
; CHECK-NEXT:  vmovdq8 %ymm1, (%rsi) [%k1]
; CHECK-NEXT:  kshiftrq $32, %k1, %k1
; CHECK-NEXT:  vmovdq8 %ymm0, 32(%rsi) [%k1]
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
%a = load <64 x i8>, <64 x i8>* %x
%b = icmp eq <64 x i8> %a, zeroinitializer
%shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 3, i32 2, i32 5, i32 4, i32 7, i32
6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32
22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39,
i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32
55, i32 54, i32 57, i32 56, i32 59, i32 58, i32 61, i32 60, i32 63, i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 1, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>*, i32, <64 x i1>)
@mem64_dst = global i64 0, align 8
@mem64_src = global i64 0, align 8
define i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_inline_asm:
; CHECK:
# %bb.0:
; CHECK-NEXT: kmovq {{.*}}(%rip), %k0
; CHECK-NEXT: #APP
; CHECK-NEXT: #NO_APP
; CHECK-NEXT: kmovq %k0, {{.*}}(%rip)
; CHECK-NEXT: movl -{{[0-9]+}}(%rsp), %eax
; CHECK-NEXT: retq
%1 = alloca i32, align 4
%2 = load i64, i64* @mem64_src, align 8
%3 = call i64 asm "", "=k,k,~{dirflag},~{fpsr},~{flags}"(i64 %2)
store i64 %3, i64* @mem64_dst, align 8
%4 = load i32, i32* %1, align 4
ret i32 %4
}
define void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vectorwidth"="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

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define void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: cmp_v8i64_zext:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT:  vpcmpeqq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT:  vpcmpeqq (%rdi), %ymm0, %ymm0
; CHECK-NEXT:  vpsrlq %63, %ymm1, %ymm1
; CHECK-NEXT:  vpsrlq %63, %ymm0, %ymm0
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <8 x i64>, <8 x i64>* %xptr
%y = load <8 x i64>, <8 x i64>* %yptr
%cmp = icmp slt <8 x i64> %x, %y
%ext = zext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpmovzbw {{.*#+}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT:  vpsubb %xmm1, %xmm2, %xmm2
; CHECK-NEXT:  vpmovzxbw {{.*#+}} ymm1 =
; CHECK-NEXT:       xmm1[0],zero,xmm1[1],zero,xmm1[2],zero,xmm1[3],zero,xmm1[4],zero,xmm1[5],zero,xmm1[6],zero,xmm1[7],zero,xmm1[8],zero,xmm1[9],zero,xmm1[10],zero,xmm1[11],zero,xmm1[12],zero,xmm1[13],zero,xmm1[14],zero,xmm1[15],zero
; CHECK-NEXT:  vpmovzxbw {{.*#+}} ymm0 =
; CHECK-NEXT:       xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
; CHECK-NEXT:  vpsllvw %ymm1, %ymm0, %ymm1
; CHECK-NEXT:  vpmovvbw {{.*#++}} ymm2 =
; CHECK-NEXT:       xmm2[0],zero,xmm2[1],zero,xmm2[2],zero,xmm2[3],zero,xmm2[4],zero,xmm2[5],zero,xmm2[6],zero,xmm2[7],zero,xmm2[8],zero,xmm2[9],zero,xmm2[10],zero,xmm2[11],zero,xmm2[12],zero,xmm2[13],zero,xmm2[14],zero,xmm2[15],zero
; CHECK-NEXT:  vpsrlw %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, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
%shl = shl <16 x i8> %a, %b
%lshr = lshr <16 x i8> %a, %b8
%or = or <16 x i8> %shl, %lshr
ret <16 x i8> %or
}
define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v32i8:
; CHECK:
# %bb.0:
; CHECK-NEXT: vpsllw $4, %ymm0, %ymm2
; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm3
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT: vpsllw $5, %ymm1, %ymm1
; CHECK-NEXT: vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT: vpsllw $2, %ymm0, %ymm2
; CHECK-NEXT: vpsrlw $6, %ymm0, %ymm3
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT: vpaddb %ymm1, %ymm1, %ymm1
; CHECK-NEXT: vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT: vpsrlw $7, %ymm0, %ymm2
; CHECK-NEXT: vpaddb %ymm0, %ymm0, %ymm3
; CHECK-NEXT: vpternlogq $248, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT: vpaddb %ymm1, %ymm1, %ymm1
; CHECK-NEXT: vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT: retq
%b8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8
8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
%shl = shl <32 x i8> %a, %b
%lshr = lshr <32 x i8> %a, %b8
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}
define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256"
{
; CHECK-LABEL: splatvar_rotate_v32i8:
; CHECK:
# %bb.0:
; CHECK-NEXT: vpbroadcastb %xmm1, %xmm1
; CHECK-NEXT: vpand {{.*}}(%rip), %xmm1, %xmm1
; CHECK-NEXT: vpmovzxbq {{.*#+}} xmm2 =
xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT: vpsllw %xmm2, %ymm0, %ymm3
; CHECK-NEXT: vmovdqa {{.*#+}} xmm4 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT: vpsubb %xmm1, %xmm4, %xmm1
; CHECK-NEXT: vpcmpeqd %xmm4, %xmm4, %xmm4
; CHECK-NEXT: vpsllw %xmm2, %xmm4, %xmm2
; CHECK-NEXT: vpbroadcastb %xmm2, %ymm2
; CHECK-NEXT: vpmovzxbq {{.*#+}} xmm1 =

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\[
\text{define } <32 \times i8> @constant_rotate_v32i8(<32 \times i8> %a) \text{ nounwind } "\text{min-legal-vector-width}"="256" \{ \\
; CHECK-AVX512-LABEL: \text{constant_rotate_v32i8}:\ \\
; CHECK-AVX512: \# %bb.0: \\
; CHECK-AVX512-NEXT: \text{vsllw } %d4, %ymm0, %ymm1 \\
; CHECK-AVX512-NEXT: \text{vpand } \{.*\}(%rip), %ymm1, %ymm1 \\
; CHECK-AVX512-NEXT: \text{vbroadcasti128 } \{.*#+\} ymm2 = [8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256] \\
; CHECK-AVX512-NEXT: \# ymm2 = \text{mem}[0,1,0,1] \\
; CHECK-AVX512-NEXT: \text{vblendvb } %ymm2, %ymm1, %ymm0, %ymm1 \\
; CHECK-AVX512-NEXT: \text{vsllw } %d2, %ymm1, %ymm3 \\
; CHECK-AVX512-NEXT: \text{vpand } \{.*\}(%rip), %ymm3, %ymm3 \\
; CHECK-AVX512-NEXT: \text{vpaddb } %ymm2, %ymm2, %ymm2 \\
; CHECK-AVX512-NEXT: \text{vblendvb } %ymm2, %ymm3, %ymm1, %ymm1 \\
; CHECK-AVX512-NEXT: \text{vpaddb } %ymm1, %ymm1, %ymm3 \\
; CHECK-AVX512-NEXT: \text{vpaddb } %ymm2, %ymm2, %ymm2 \\
; CHECK-AVX512-NEXT: \text{vblendvb } %ymm2, %ymm3, %ymm1, %ymm1 \\
; CHECK-AVX512-NEXT: \text{vpxor } %xmm2, %xmm2, %xmm2 \\
; CHECK-AVX512-NEXT: \text{vunpckhbw } \{.*#+\} 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: \text{vsllw } \{.*\}(%rip), %ymm3, %ymm3 \\
; CHECK-AVX512-NEXT: \text{vsrlw } %d8, %ymm3, %ymm3 \\
; CHECK-AVX512-NEXT: \text{vunpcklbw } \{.*#+\} ymm0 = ymm0[0],ymm2[0],ymm0[1],ymm2[1],ymm0[2],ymm2[2],ymm0[3],ymm2[3],ymm0[4],ymm2[4],ymm0[5],ymm2[5],ymm0[6],ymm2[6],ymm0[7],ymm2[7],ymm0[16],ymm2[16],ymm0[17],ymm2[17],ymm0[18],ymm2[18],ymm0[19],ymm2[19],ymm0[20],ymm2[20],ymm0[21],ymm2[21],ymm0[22],ymm2[22],ymm0[23],ymm2[23] \\
; CHECK-AVX512-NEXT: \text{vsllw } \{.*\}(%rip), %ymm0, %ymm0 \\
; CHECK-AVX512-NEXT: \text{vsrlw } %d8, %ymm0, %ymm0 \\
; CHECK-AVX512-NEXT: \text{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:  vpaddb %ymm1, %ymm1, %ymm3
; CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
; CHECK-VBMI-NEXT:  vpaddb %ymm1, %ymm1, %ymm3
; CHECK-VBMI-NEXT:  vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpsllvw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT:  vmovdqa {{.*#+}} ymm2 = 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:  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:  vpsllvw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT:  vpunpcklhw {{.*#+}} ymm0 = ymm0[0],ymm2[0],ymm0[1],ymm2[1],ymm0[2],ymm2[2],ymm0[3],ymm2[3],ymm0[4],ymm2[4],ymm0[5],ymm2[5],ymm0[6],ymm2[6],ymm0[7],ymm2[7],ymm0[16],ymm2[16],ymm0[17],ymm2[17],ymm0[18],ymm2[18],ymm0[19],ymm2[19],ymm0[20],ymm2[20],ymm0[21],ymm2[21],ymm0[22],ymm2[22],ymm0[23],ymm2[23]
; CHECK-VBMI-NEXT:  vpsllw {{.*}}(%rip), %ymm0, %ymm0
; CHECK-VBMI-NEXT:  vmovdqa {{.*#+}} ymm2 = [1,3,5,7,9,11,13,15,33,35,37,39,41,43,45,47,17,19,21,23,25,27,29,31,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:  vpvermi2b %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, 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 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 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>
%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

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SOFTWARE.

add_llvm_library(llvmPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
  llvmCore
  llvmHost
  llvmSymbol
LINK_COMPONENTS
  Support
)

# People who have agreed to one of the CLAs and can contribute patches.
# The AUTHORS file lists the copyright holders; this file
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#
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
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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 as:
#   Name <email address>
#
# Please keep the list sorted.
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" }
; NOTE: Assertions have been autogenerate by utils/update_test_checks.py UTC_ARGS: --function-signature --
; scrub-attributes
; RUN: opt -attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-CS -attributor-max-iterations=4 -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_CGSCC_NPM,NOT_CGSCC_OPM,NOT_TUNIT_NPM,IS__TUNIT____,IS________OP M,IS__TUNIT_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations=3 -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM,IS__TUNIT____,IS________NPM,IS__TUNIT_NPM
; RUN: opt -attributor-cgscc -attributor-manifest-internal -attributor-annotate-decl-CS -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_NPM,IS__CGSCC____,IS________OP M,IS__CGSCC_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor-cgscc -attributor-manifest-internal -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_OPM,IS__CGSCC____,IS________NP M,IS__CGSCC_NPM
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
;
; NOT_TUNIT_NPM-LABEL: define
{[^@]+}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofreenonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofreenonnull readonlyalign 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [TMP:%.*] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define
{[^@]+}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture 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

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define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<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_prefer512(<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_prefer512(<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 @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    (
        <8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]])
    bb:
    ; NOT_TUNIT_NPM-NEXT: bb:
    ; NOT_TUNIT_NPM-NEXT: [[ARG1:%.*]] = 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
    @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    bb:
        %tmp = load <8 x i64>, <8 x i64>* %arg1
        store <8 x i64> %tmp, <8 x i64>* %arg
        ret void
    }

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* %arg) #1 {
    ;
    ; IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; IS__TUNIT_OPM-SAME: (8 x i64)* nocapture writeonly [[ARG:%.*]])
    ; IS__TUNIT_OPM-NEXT: bb:
    ; IS__TUNIT_OPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
    ; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; IS__TUNIT_OPM-NEXT: ret void
    ;
    bb:
        %arg = load <8 x i64>, <8 x i64>* %arg
        store <8 x i64> %arg, <8 x i64>* %arg
        ret void
    }

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* %arg) 

dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT:  [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture 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_prefer256 (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* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]])
; 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

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

}; This should promote

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {

}; IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer256

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

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dereferenceable(64) [[TMP]])

; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void

; IS__TUNIT_NPM-LABEL: define [([^@]+) ] @avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture readonly nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void

; IS__CGSCC_OPM-LABEL: define [([^@]+) ] @avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture writeonly 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* 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 [([^@]+) ] @avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture writeonly 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nonnull readon
align 64 dereferenceable(64) [[TMP]]
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
;
; NOT_TUNIT_NPM-LABEL: define
{|[^@]+}| @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:  ret void
;
; IS__TUNIT_NPM-LABEL: define
{|[^@]+}| @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

};
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; IS__UNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer512
    (8 x i64)* nocapture writeonly [[ARG:%.*]])
    IS__UNIT_OPM-NEXT: bb:
        IS__UNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
        IS__UNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
        IS__UNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
        IS__UNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
        IS__UNIT_OPM-NEXT: call fastcc void
    @ callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nonnull readonly align 64
dereferenceable(64) [[TMP]])

; 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_legal512_prefer256_call_avx512_legal512_prefer512
    (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: call fastcc void
    @ callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nonnull readonly align 64
dereferenceable(64) [[TMP]])

; 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_legal512_prefer256_call_avx512_legal512_prefer512
    (8 x i64)* nocapture writeonly align 2 dereferenceable(64) [[ARG:%.*]])
    IS__CGSCC_OPM-NEXT: bb:
        IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
        IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
        IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
        IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
        IS__CGSCC_OPM-NEXT: call fastcc void
    @ callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* 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
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(8 x i64/* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])

...
; 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:
    [[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* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
  ; IS__TUNIT_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__TUNIT_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS__TUNIT_OPM-NEXT:    ret void

  ; IS__TUNIT_NPM-LABEL: define {[^@]+} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
  ; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS__TUNIT_NPM-NEXT: 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* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal256_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__TUNIT_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__TUNIT_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS__TUNIT_NPM-NEXT:    ret void

  ; IS__CGSCC_OPM-LABEL: define {[^@]+} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
  ; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS__CGSCC_OPM-NEXT: 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* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal256_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_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_OPM-LABEL: define {[^@]+} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
  ; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
  ; IS__CGSCC_OPM-NEXT: bb:
    [[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* nocapture nonnull writeonly align 2
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
nonnull align 2 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull align 2
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

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: IS__CGSCC_OPM-NEXT:  \[[\text{TMP3}:%.\*]\] = bitcast <8 x i64>* \[[\text{TMP3}\]] to i8*
: IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) \[[\text{TMP3}\]], i8 0, i64 32, i1 false)
: IS__CGSCC_OPM-NEXT:  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) \[[\text{TMP2}\]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) \[[\text{TMP3}\]]
: IS__CGSCC_OPM-NEXT:  \[[\text{TMP4}:%.\*]\] = load <8 x i64>, <8 x i64>* \[[\text{TMP4}\]], <8 x i64>* \[[\text{ARG}\]], align 2
: IS__CGSCC_OPM-NEXT:  ret void

: IS__CGSCC_NPM-LABEL: define {{\[^\@\]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
: IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) \[[\text{ARG}:%.\*]\])
: IS__CGSCC_NPM-NEXT:  bb:
: IS__CGSCC_NPM-NEXT:  \[[\text{ARG}:%.\*]\] = alloca <8 x i64>, align 32
: IS__CGSCC_NPM-NEXT:  \[[\text{ARG1}:%.\*]\] = alloca <8 x i64>, align 32
: IS__CGSCC_NPM-NEXT:  \[[\text{TMP}:%.\*]\] = alloca <8 x i64>, align 32
: IS__CGSCC_NPM-NEXT:  \[[\text{TMP2}:%.\*]\] = alloca <8 x i64>, align 32
: IS__CGSCC_NPM-NEXT:  \[[\text{TMP3}:%.\*]\] = bitcast <8 x i64>* \[[\text{TMP3}\]] to i8*
: IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* align 32 \[[\text{TMP3}\]], i8 0, i64 32, i1 false)
: IS__CGSCC_NPM-NEXT:  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) \[[\text{TMP2}\]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) \[[\text{TMP3}\]]
: IS__CGSCC_NPM-NEXT:  \[[\text{TMP4}:%.\*]\] = load <8 x i64>, <8 x i64>* \[[\text{TMP4}\]], <8 x i64>* \[[\text{ARG}\]], 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_legal512_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>* 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:
align 64 dereferenceable(64) [[TMP]]
; 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_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT:  bb:
; IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[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_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:  %tmp = alloca <8 x i64>, align 32
%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_legal256_prefer256(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_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
}
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
    ; NOT_TUNIT_NPM-LABEL: define {
        ([[@]+]) @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture 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_avx2_legal256_prefer256_call_avx2_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>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
    }

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
    ;
    ; IS__TUNIT_OPM-LABEL: define {
        ([[@]+]) @avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__TUNIT_OPM-NEXT: bb:
    ; IS__TUNIT_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__TUNIT_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__TUNIT_OPM-NEXT:    call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP3]])
    ; IS__TUNIT_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; IS__TUNIT_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; IS__TUNIT_OPM-NEXT:    ret void
    ;

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_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  
  NOT_TUNIT_NPM-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_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:
    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    NOT_TUNIT_NPM-NEXT: ret void
  
  IS__TUNIT_NPM-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_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:
    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
    store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    IS__TUNIT_NPM-NEXT: ret void
  
  bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #3 {
  
  IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx2legal512_prefer256_call_avx2_legal512_prefer256
  IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  IS__TUNIT_OPM-NEXT: bb:
    [[TMP:%.*]] = alloca <8 x i64>, align 32
    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:   [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT:   call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nonfree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nonfree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT:   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:   store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:   ret void
;
; IS__TUNIT_NPM-LABEL: define {[^@]+} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:   [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:   [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:   [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT:   [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:   call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture 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 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 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:   [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_OPM-NEXT:   call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nonfree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; 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 writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:   [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:   [[TMP2:%.*]] = alloca <8 x i64>, align 32

; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:    call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    ret void

bb:  
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked
; as 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")
  strictfp
  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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==============================================================================
define void @zext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'zext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>  
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>  
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>  
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>  
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>  
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; AVX512VL512-LABEL: 'zext256'
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>  
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>  
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>  
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>  
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>  
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; SKX512-LABEL: 'zext256'
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>  
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>  
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>  
}
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 <16 x i8> undef to <16 x i32>
   ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i16> undef to <16 x i32>
   ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <32 x i8> undef to <32 x i16>
   ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i16> undef to <32 x i64>
   ret void
}
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
define void @sext512() "min-legal-vector-width"="512" { 
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @trunc256() "min-legal-vector-width"="256" {
; AVX-LABEL: 'trunc256'
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'trunc256'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'trunc256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX256-LABEL: 'trunc256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX512-LABEL: 'trunc256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = trunc <8 x i64> undef to <8 x i32>
%B = trunc <8 x i64> undef to <8 x i16>
%C = trunc <8 x i64> undef to <8 x i8>
%D = trunc <16 x i32> undef to <16 x i16>
%H = trunc <16 x i32> undef to <16 x i8>
%F = trunc <32 x i16> undef to <32 x i8>
ret void
}

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'zext256_vXi1'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
    ; 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 1 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
    ; AVX512VL256-LABEL: 'zext256_vXi1'
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
}

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; 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 2 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 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; 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 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-LABEL: 'zext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1>
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undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; SKX256-LABEL: 'zext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>

Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>

Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>

Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>

Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>

Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>

Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>

Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>

Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>

Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>

Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16
to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 42 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'sext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'sext256_vXi1'
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
%V64i8 = sext <64 x i1> undef to <64 x i8>

%I64 = sext i1 undef to i64
%V2i64 = sext <2 x i1> undef to <2 x i64>
%V4i64 = sext <4 x i1> undef to <4 x i64>
%V8i64 = sext <8 x i1> undef to <8 x i64>

%I32 = sext i1 undef to i32
%V2i32 = sext <2 x i1> undef to <2 x i32>
%V4i32 = sext <4 x i1> undef to <4 x i32>
%V8i32 = sext <8 x i1> undef to <8 x i32>
%V16i32 = sext <16 x i1> undef to <16 x i32>

%I16 = sext i1 undef to i16
%V2i16 = sext <2 x i1> undef to <2 x i16>
%V4i16 = sext <4 x i1> undef to <4 x i16>
%V8i16 = sext <8 x i1> undef to <8 x i16>
%V16i16 = sext <16 x i1> undef to <16 x i16>
%V32i16 = sext <32 x i1> undef to <32 x i16>

%I8 = sext i1 undef to i8
%V2i8 = sext <2 x i1> undef to <2 x i8>
%V4i8 = sext <4 x i1> undef to <4 x i8>
%V8i8 = sext <8 x i1> undef to <8 x i8>
%V16i8 = sext <16 x i1> undef to <16 x i8>
%V32i8 = sext <32 x i1> undef to <32 x i8>
%V64i8 = sext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @trunc_vXi1() "min-legal-vector-width"="256" [  
  ; AVX-LABEL: 'trunc_vXi1'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
]
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction:  %V2i32 = trunc <2 x i32> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction:  %V4i32 = trunc <4 x i32> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction:  %V8i32 = trunc <8 x i32> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction:  %V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 18 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL256-LABEL: 'trunc_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction:  %V2i64 = trunc <2 x i64> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction:  %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32 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 14 for instruction: %V64i8 = trunc <64 x i8> 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>
; 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
}

LLVM System Interface Library

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1.1089 keyutils 1.6.1-2

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1.1091 python 3.7.3-1

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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. Brenstrup <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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py3compile, py3clean and debpython module:
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written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/ *
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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That's all there is to it!

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

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

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

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#
# This is 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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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
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lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
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numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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1.1105 linux-atm 2.5.1-2build1

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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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1.1108 normalize-package-data 2.5.0

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1.1112 wcwidth 0.2.5

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1.1114 go-autorest-tracing 0.6.0

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1.1115 dash 0.5.8 2.10

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1.1126 pcre 8.39-13
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THE BASIC LIBRARY FUNCTIONS
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----------------------------------------

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1.1127 curl 7.58.0-2ubuntu3.18
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License Mixing
=============

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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1.1128 vim 8.1.0875-5+deb10u2

1.1129 su-exec 0.2-r1

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1.1130 p-locate 2.0.0

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   */

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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=================

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1.1141 isarray 1.0.0

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Found in path(s):
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1.1142 openssl 1.1.1l-r7

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1.1146 utils 0.0.0-20201110183641-67b214c5f920

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1.1147 libjson-perl 4.03000-1

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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.
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.

```perl
-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.

# no functional interfaces, while JSON::PP support is enabled.
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:

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

Except being faster.

to_json
```perl
$json_text = to_json($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:

```perl
$json_text = JSON->new->encode($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).

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

from_json
```perl
$perl_scalar = from_json($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
$perl_scalar = JSON->new->decode($json_text)
```

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

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

JSON::is_bool
```perl
$is_boolean = JSON::is_bool($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"]
```

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, U+abc escaped, U+89 not)
```

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:

```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);
```

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.

```perl
$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.

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

```perl
$enabled = $json->space_before($enable)
```

Pretty

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

Pretty printing also encodes the JSON string as a Unicode string.

```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);
```

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

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

```perl
$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

```perl
$json = $json->space_before($enable)
```
$enabled = $json->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"}

$json_after

$enabled = $json->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

$enabled = $json->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

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

```perl
$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:

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

=> "Hello, World!"

allow_unknown

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

```perl
$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 c<allow_nonref>.

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

   $enabled = $json->get_allow_blessed

   See "OBJECT SERIALISATION" for details.

   If $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 $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".

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

   $enabled = $json->get_convert_blessed

   See "OBJECT SERIALISATION" for details.

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

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

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

max_depth
$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

$json = $json->max_size($maximum_string_size)

$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 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.

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

ADDITIONAL METHODS

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 of syntax errors.

The following methods implement this incremental parser.

**incr_parse**

```perl
$json->incr_parse( [$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 $string is given, then this string is appended to the already existing JSON fragment stored in the $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 *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]" intentions);
```

**incr_text**

```perl
$value_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:

```perl
# 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:

```perl
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:

```perl
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 :).
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.

   ```
   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>)

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

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Found in path(s):
* /opt/cola/permits/1228286751_1637032133.21/0/libjson-perl-4.03000-orig-1.tar-gz/JSON-4.03/README
No license file was found, but licenses were detected in source scan.

=head1 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

4.02

DESCRIPTION

This module is a thin wrapper for L<JSON::XS>-compatible modules with a few additional features. All the backend modules convert a Perl data structure to a JSON text and vice versa. This module uses L<JSON::XS> by default, and when JSON::XS is not available, falls back on L<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 L<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 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):

```plaintext
> export PERL_JSON_BACKEND=JSON::XS
```

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

```plaintext
> 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 C<BEGIN>, and set before actually C<use>-ing JSON module, as it decides its backend as soon as it's loaded):

```plaintext
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. These historical options are only kept for backward compatibility, and should not be used in a new application.

=over

=item -support_by_pp

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

```plaintext
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;

=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). Crooks 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. Crooks 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:

```perl
$json_text = JSON->new->encode($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).

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

=head2 from_json

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

=head2 JSON::is_bool

```perl
$is_boolean = JSON::is_bool($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> (with the exception of C<allow_nonref>, which defaults to I<enabled> since version C<4.0>.

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.

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

=head2 latin1


$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 C<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 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.

$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 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 $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 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])
```

$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])
```

$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:

```json
{ "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:

```json
{ "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 any way. 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...  
]  
```

=head2 canonical

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

$enabled = $json->get_canonical

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

If C<$enable> is false, then the C<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

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

$enabled = $json->get_allow_nonref

Unlike other boolean options, this option is enabled by default beginning with version C<4.0>.

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!"

allow_unknown

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

$enabled = $json->get_allow_unknown

If C<$enable> is true (or missing), then C<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.

allow_blessed

DECLARE $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 allow_tags (since version 3.0)

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

$enabled = $json->get_allow_tags

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\<FREEZE\> method on the object's class. If found, it will be used to serialise the object into a nonstandard tagged JSON value (that JSON decoders cannot decode).

It also causes C\<decode\> to parse such tagged JSON values and deserialise them via a call to the C\<THAW\> method.

If C\<$enable\> is false (the default), then C\<encode\> will not consider this type of conversion, and tagged JSON values will cause a parse error in C\<decode\>, as if tags were not part of the grammar.

=head2 boolean_values (since version 4.0)

$\text{json->boolean_values}([\text{$false, $true}])

($\text{false, $true}) = \text{json->get_boolean_values}

By default, JSON booleans will be decoded as overloaded C\<$\text{JSON::false}\> and C\<$\text{JSON::true}\> objects.

With this method you can specify your own boolean values for decoding - on decode, JSON C\<$\text{false}\> will be decoded as a copy of C\<$\text{false}\>, and JSON C\<$\text{true}\> will be decoded as C\<$\text{true}\> ("copy" here is the same thing as assigning a value to another variable, i.e. C\<$\text{copy = $false}\>).

This is useful when you want to pass a decoded data structure directly to other serialisers like YAML, Data::MessagePack and so on.

Note that this works only when you C\<decode\>. You can set incompatible boolean objects (like L\<boolean\>), but when you C\<encode\> a data structure with such boolean objects, you still need to enable C\<convert_blessed\> (and add a C\<TO_JSON\> method if necessary).

Calling this method without any arguments will reset the booleans to their default values.

C\<get_boolean_values\> will return both C\<$\text{false}\> and C\<$\text{true}\> values, or the empty list when they are set to the default.

=head2 filter_json_object

$\text{json = json->filter_json_object}([\text{$coderef}])

When C\<$\text{coderef}\> is specified, it will be called from C\<decode\> each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (or rather a copy of it) is inserted into the deserialised data structure. If it returns an empty...
list (NOTE: I<not> C<undef>, which is a valid scalar), the original
deserialised hash will be inserted. This setting can slow down decoding
considerably.
When C<$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('[{}]');
# returns 5
$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:

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# 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.

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

=head2 max_size
$json = $json->max_size([$maximum_string_size])
$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 C<0>, meaning no limit. When C<decode> is called on a string that is longer than 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).

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

=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.
$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.

$boolean = $json->is_xs

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

$boolean = $json->is_pp

Returns true if the backend inherits JSON::PP.

$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.

$boolean_object = JSON->boolean($scalar)

Returns $JSON::true if $scalar contains a true value, $JSON::false otherwise. You can use this as a full-qualified function (C<JSON::boolean($scalar)>).

=heading 1 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 of 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
Example: Parse some JSON arrays/objects in a given string and return them.

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

=head2 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 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

```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 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

```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.

=head1 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 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.

=item tagged values (C<< (I<tag>)I<value> >>).

Another nonstandard extension to the JSON syntax, enabled with the C<allow_tags> setting, are tagged values. In this implementation, the I<tag> must be a perl package/class name encoded as a JSON string, and the I<value> must be a JSON array encoding optional constructor arguments.

See L<Object Serialisation>, below, for details.

=back

=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.
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.

Perl array references become JSON arrays.

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]
```

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

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

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 :).

Since version 2.91_01, JSON::PP uses a different number detection logic that converts a scalar that is possible to turn into a number safely. The new logic is slightly faster, and tends to help people who use older perl or who want to encode complicated data structure. However, this may results in a different JSON text from the one JSON::XS encodes (and thus may break tests that compare entire JSON texts). If you do need the previous behavior for better compatibility or for finer control, set PERL_JSON_PP_USE_B environmental variable to true before you C<use> JSON.

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.pm backend modules trust 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 backends consider tainted and don't trust). As JSON backends don'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.

=head2 OBJECT SERIALISATION

As JSON cannot directly represent Perl objects, you have to choose between
a pure JSON representation (without the ability to deserialise the object
automatically again), and a nonstandard extension to the JSON syntax,
tagged values.

=head3 SERIALISATION

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

=item 1. C<allow_tags> is enabled and the object has a C<FREEZE> method.

In this case, C<JSON> creates a tagged JSON value, using a nonstandard
extension to the JSON syntax.

This works by invoking the C<FREEZE> method on the object, with the first
argument being the object to serialise, and the second argument being the
constant string C<JSON> to distinguish it from other serialisers.

The C<FREEZE> method can return any number of values (i.e. zero or
more). These values and the package/classname of the object will then be
encoded as a tagged JSON value in the following format:

("classname")[FREEZE return values...]

e.g.:

("URI")["http://www.google.com"]
("MyDate")[2013,10,29]
("ImageData::JPEG")["Z3...ViCg=="]

For example, the hypothetical C<My::Object> C<FREEZE> method might use the
objects C<type> and C<id> members to encode the object:
sub My::Object::FREEZE {
    my ($self, $serialiser) = @_;

    ($self->{type}, $self->{id})
}

=item 2. 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 3. C<allow_blessed> is enabled.

The object will be serialised as a JSON null value.

=item 4. none of the above

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

=back

=head3 DESERIALISATION

For deserialisation there are only two cases to consider: either nonstandard tagging was used, in which case C<allow_tags> decides, or objects cannot be automatically be deserialised, in which case you can use postprocessing or the C<filter_json_object> or C<filter_json_single_key_object> callbacks to get some real objects out of your JSON.

This section only considers the tagged value case: a tagged JSON object is encountered during decoding and C<allow_tags> is disabled, a parse error will result (as if tagged values were not part of the grammar).

If C<allow_tags> is enabled, this module will look up the C<THAW> method of the package/classname used during serialisation (it will not attempt to load the package as a Perl module). If there is no such method, the
decoding will fail with an error.

Otherwise, the C<THAW> method is invoked with the classname as first argument, the constant string C<JSON> as second argument, and all the values from the JSON array (the values originally returned by the C<FREEZE> method) as remaining arguments.

The method must then return the object. While technically you can return any Perl scalar, you might have to enable the C<allow_nonref> setting to make that work in all cases, so better return an actual blessed reference.

As an example, let's implement a C<THAW> function that regenerates the C<My::Object> from the C<FREEZE> example earlier:

```perl
sub My::Object::THAW {
    my ($class, $serialiser, $type, $id) = @_;

    $class->new (type => $type, id => $id)
}
```

=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-8859-1-1<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 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.

=back

=head1 BACKWARD INCOMPATIBILITY

Since version 2.90, stringification (and string comparison) for C<JSON::true> and C<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.\n";  # => 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 C<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:

As for bugs on a specific behavior, please report to the author of the backend module you are using.

As for new features and requests to change common behaviors, please ask the author of JSON::XS (Marc Lehmann, <schmorp@schmorp.de>) first, by email (important!), to keep compatibility among JSON.pm backends.

=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>)

RFC7159 (L<http://www.ietf.org/rfc/rfc7159.txt>)

RFC8259 (L<http://www.ietf.org/rfc/rfc8259.txt>)

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JSON::XS was written by Marc Lehmann <schmorp@schmorp.de>

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

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=head1 COPYRIGHT AND LICENSE

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Most of the documentation is taken from JSON::XS by Marc Lehmann

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

=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

Found in path(s):
* /opt/cola/permits/1228286471_1639012332.21/0/libjson-perl-4-03000-orig-1-tar-gz/JSON-4.03/lib/JSON/backportPP/Compat5005.pm
No license file was found, but licenses were detected in source scan.

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 ) },
    
),
'none'
);

cmpthese( $result );

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

__END__

=pod

=head1 SYNOPSIS

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

makamaka

=head1 LICENSE

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
Found in path(s):
* /opt/cola/permits/1228286751_1637032133.21/0/libjson-perl-4.03000-orig-1-tar-gz/JSON-4.03/eg/bench_decode.pl
No license file was found, but licenses were detected in source scan.

---

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 7.34, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: JSON
no_index:
directory:
  - t
  - inc
recommends:
  JSON::XS: '2.34'
requires:
  Test::More: '0'
resources:
  bugtracker: https://github.com/makamaka/JSON/issues
  repository: https://github.com/makamaka/JSON
  version: '4.03'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1228286751_1637032133.21/0/libjson-perl-4.03000-orig-1-tar-gz/JSON-4.03/META.yml
No license file was found, but licenses were detected in source scan.

=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

4.05

=head1 DESCRIPTION

JSON::PP is a pure perl JSON decoder/encoder, 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, etc),
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.

```perl
=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:

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

Except being faster.

```perl
=head2 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
$perl_scalar = JSON::PP->new->utf8->decode($json_text)
```

Except being faster.

```perl
=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.

```perl
=head2 new
```
$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 disabled (with the exception of allow_nonref, which defaults to enabled since version 4.0).

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 $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::PP->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\udc01"]

=head2 latin1

$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 C<0..255>. The resulting string can be treated as a 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 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:

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

=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"}
=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
=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:

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[
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...
]

=item * literal ASCII TAB characters in strings

Literal ASCII TAB characters are now allowed in strings (and treated as C<&t>).
$json = $json->canonical([$enable])

$enabled = $json->get_canonical

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

If C<$enable> is false, then the C<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.

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

$enabled = $json->get_allow_nonref

Unlike other boolean options, this option is enabled by default beginning with version C<4.0>.

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 without enabled C<allow_nonref>, resulting in an error:

    JSON::PP->new->allow_nonref(0)->encode ('Hello, World!')
    => hash- or arrayref expected...

=head2 allow_unknown

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

    $enabled = $json->get_allow_unknown

If C<$enable> is true (or missing), then C<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 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 allow_tags

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

$enabled = $json->get_allow_tags

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<FREEZE> method on the object's class. If found, it will be used to serialise the object into a nonstandard tagged JSON value (that JSON decoders cannot decode).

It also causes C<decode> to parse such tagged JSON values and deserialise them via a call to the C<THAW> method.

If C<$enable> is false (the default), then C<encode> will not consider this type of conversion, and tagged JSON values will cause a parse error in C<decode>, as if tags were not part of the grammar.

=head2 boolean_values

$false, $true = $json->get_boolean_values

By default, JSON booleans will be decoded as overloaded
C<$JSON::PP::false> and C<$JSON::PP::true> objects.

With this method you can specify your own boolean values for decoding - on decode, JSON C<$false> will be decoded as a copy of C<$false>, and JSON C<$true> will be decoded as C<$true> ("copy" here is the same thing as assigning a value to another variable, i.e. C<$copy = $false>).

This is useful when you want to pass a decoded data structure directly to other serialisers like YAML, Data::MessagePack and so on.

Note that this works only when you C<decode>. You can set incompatible boolean objects (like L<boolean>), but when you C<encode> a data structure with such boolean objects, you still need to enable C<convert_blessed> (and add a C<TO_JSON> method if necessary).

Calling this method without any arguments will reset the booleans to their default values.

C<get_boolean_values> will return both C<$false> and C<$true> values, or the empty list when they are set to the default.

=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 (or rather a copy of it) 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::PP->new->filter_json_object(sub { 5 });
# returns [5]
$js->decode('[{}]');
# returns 5
$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::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;
}

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{$__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 C<$enable> is false, then JSON::PP does nothing.

=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.

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

=head2 max_size

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

$max_size = $json->get_max_size

---

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

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

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

=head2 encode

\texttt{$json\_text = $json->encode($perl\_scalar)}

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

=head2 decode

\texttt{$perl\_scalar = $json->decode($json\_text)}

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

=head2 decode\_prefix

\texttt{($perl\_scalar, $characters) = $json->decode\_prefix($json\_text)}

This works like the \texttt{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.

\texttt{JSON::PP->new->decode\_prefix ("[1] the tail")}

\texttt{=> ([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, you might want to try \texttt{L<Cpanel::JSON::XS}>, a fork of JSON::XS by Reini Urban, which supports some of these (with a different set of incompatibilities). Most of these historical flags are only kept
for backward compatibility, and should not be used in a new application.

=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 any way. 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 any way. 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. \texttt{C<encode>} will convert \texttt{C<Math::BigInt>} and \texttt{C<Math::BigFloat>} objects into JSON numbers.

\begin{verbatim}
$json->allow_nonref->allow_bignum;
$bigfloat = $json->decode('2.000000000000000000000000001');
print $json->encode($bigfloat);
# => 2.000000000000000000000000001
\end{verbatim}

See also \texttt{L<MAPPING>>}.

=head2 loose

\begin{verbatim}
$json = $json->loose([$enable])
$enabled = $json->get_loose
\end{verbatim}

If \texttt{C<$enable>} is true (or missing), then \texttt{C<decode>} will accept invalid JSON texts that contain unescaped [\texttt{\x00-\x1f\x22\x5c}] characters. \texttt{C<encode>} will not be affected in any way.

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

\begin{verbatim}
$json->loose->decode(qq|"abc
def"|);
\end{verbatim}

=head2 escape_slash

\begin{verbatim}
$json = $json->escape_slash([$enable])
$enabled = $json->get_escape_slash
\end{verbatim}

If \texttt{C<$enable>} is true (or missing), then \texttt{C<encode>} will explicitly escape I<slash> (solidus; \texttt{C<U+002F>}) characters to reduce the risk of XSS (cross site scripting) that may be caused by \texttt{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.

\texttt{C<decode>} will not be affected in any way.

=head2 indent_length
This option is only useful when you also enable C<indent> or C<prettify>.

JSON::XS indents with three spaces when you C<encode> (if requested by C<indent> or C<prettify>), 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

$\text{json} = \text{json->sort\_by(}$\text{code\_ref}$)$

If you just want to sort keys (names) in JSON objects when you C<encode>, enable C<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 C<sort\_by>, then the argument will be passed to Perl's C<sort> built-in function.

As the sorting is done in the JSON::PP scope, you usually need to prepend C<JSON::PP::> to the subroutine name, and the special variables C<$a> and C<$b> used in the subroutine used by C<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 C<sort\_by> affects all the plain hashes in the data structure. If you need finer control, C<tie> necessary hashes with a module that implements ordered hash (such as L<Hash::Ordered> and L<Tie::IxHash>). C<canonical> and C<sort\_by> don't affect the key order in C<tie>d hashes.

use Hash::Ordered;
tie my %hash, 'Hash::Ordered',
  (name => 'CPAN', id => 1, href => 'http://cpan.org');
print $json->encode([%hash]);
# ["name":"CPAN","id":1,"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 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).

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 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.

```perl
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 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).

=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 `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.

=head1 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 `<perl>` refers to the Perl interpreter, while uppercase `<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.
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 $allow_bignum$ 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.

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.

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

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.
Another nonstandard extension to the JSON syntax, enabled with the C<allow_tags> setting, are tagged values. In this implementation, the I<tag> must be a perl package/class name encoded as a JSON string, and the I<value> must be a JSON array encoding optional constructor arguments.

See L<OBJECT SERIALISATION>, below, for details.

=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.

=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. 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:

```perl
# 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 JSON string by stringifying it:

```perl
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 JSON number by numifying it:

```perl
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.

Since version 2.91_01, JSON::PP uses a different number detection logic that converts a scalar that is possible to turn into a number safely.
The new logic is slightly faster, and tends to help people who use older perl or who want to encode complicated data structure. However, this may results in a different JSON text from the one JSON::XS encodes (and thus may break tests that compare entire JSON texts). If you do need the previous behavior for compatibility or for finer control, set PERL_JSON_PP_USE_B environmental variable to true before you C<use> JSON::PP (or JSON.pm).

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 JSON cannot directly represent Perl objects, you have to choose between a pure JSON representation (without the ability to deserialise the object automatically again), and a nonstandard extension to the JSON syntax, tagged values.

=head3 SERIALISATION

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

=over 4

=item 1. C<allow_tags> is enabled and the object has a C<FREEZE> method.
In this case, C<JSON::PP> creates a tagged JSON value, using a nonstandard extension to the JSON syntax.

This works by invoking the C<FREEZE> method on the object, with the first argument being the object to serialise, and the second argument being the constant string C<JSON> to distinguish it from other serialisers.

The C<FREEZE> method can return any number of values (i.e. zero or more). These values and the package/classname of the object will then be encoded as a tagged JSON value in the following format:

("classname")[FREEZE return values...]

e.g.:

("URI")["http://www.google.com/"]
("MyDate")[2013,10,29]
("ImageData::JPEG")["Z3...VIg=="]

For example, the hypothetical C<My::Object> C<FREEZE> method might use the objects C<type> and C<id> members to encode the object:

    sub My::Object::FREEZE {
        my ($self, $serialiser) = @_;
        ($self->{type}, $self->{id})
    }

=item 2. 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 3. C<allow_bignum> is enabled and the object is a C<Math::BigInt> or C<Math::BigFloat>.

The object will be serialised as a JSON number value.

=item 4. C<allow_blessed> is enabled.
The object will be serialised as a JSON null value.

=item 5. none of the above

If none of the settings are enabled or the respective methods are missing, C<JSON::PP> throws an exception.

=back

=head3 DESERIALISATION

For deserialisation there are only two cases to consider: either nonstandard tagging was used, in which case C<allow_tags> decides, or objects cannot be automatically be deserialised, in which case you can use postprocessing or the C<filter_json_object> or C<filter_json_single_key_object> callbacks to get some real objects our of your JSON.

This section only considers the tagged value case: a tagged JSON object is encountered during decoding and C<allow_tags> is disabled, a parse error will result (as if tagged values were not part of the grammar).

If C<allow_tags> is enabled, C<JSON::PP> will look up the C<THAW> method of the package/classname used during serialisation (it will not attempt to load the package as a Perl module). If there is no such method, the decoding will fail with an error.

Otherwise, the C<THAW> method is invoked with the classname as first argument, the constant string C<JSON> as second argument, and all the values from the JSON array (the values originally returned by the C<FREEZE> method) as remaining arguments.

The method must then return the object. While technically you can return any Perl scalar, you might have to enable the C<allow_nonref> setting to make that work in all cases, so better return an actual blessed reference.

As an example, let's implement a C<THAW> function that regenerates the C<My::Object> from the C<FREEZE> example earlier:

```perl
sub My::Object::THAW {  
  my ($class, $serialiser, $type, $id) = @_;  

  $class->new (type => $type, id => $id)  
}
```

=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 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.
Please report bugs on a specific behavior of this module to RT or GitHub issues (preferred):

L<https://github.com/makamaka/JSON-PP/issues>


As for new features and requests to change common behaviors, please ask the author of JSON::XS (Marc Lehmann, E<lt>schmorp[at]schmorp.deE<gt>) first, by email (important!), to keep compatibility among JSON.pm backends.

Generally speaking, if you need something special for you, you are advised to create a new module, maybe based on L<JSON::Tiny>, which is smaller and written in a much cleaner way than this module.

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>)

RFC7159 (L<http://www.ietf.org/rfc/rfc7159.txt>)

RFC8259 (L<http://www.ietf.org/rfc/rfc8259.txt>)

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Most of the documentation is taken from JSON::XS by Marc Lehmann
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it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1228286751_1637032133.21/0/libjson-perl-4-03000-orig-1-tar-gz/JSON-
4.03/lib/JSON/backportPP.pm
No license file was found, but licenses were detected in source scan.

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'
};


open source used in cisco telemetry broker on prem 1.3.1 10847

```perl
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__

=pod
=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

=head1 LICENSE

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/1228286751_1637032133.21/0/libjson-perl-4.03000-orig-1-tar-gz/JSON-
JSON::PP::Boolean - dummy module providing JSON::PP::Boolean

=head1 SYNOPSIS

# do not "use" yourself

=head1 DESCRIPTION

This module exists only to provide overload resolution for Storable and similar modules. See L<JSON::PP> for more info about this class.

=head1 AUTHOR

This idea is from L<JSON::XS::Boolean> written by Marc Lehmann <schmorp[at]schmorp.de>

=head1 LICENSE

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/1228286751_1637032133.21/0/libjson-perl-4-03000-orig-1-tar-gz/JSON-4.03/lib/JSON/backportPP/Boolean.pm

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

=pod

=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>

=head1 COPYRIGHT AND LICENSE
Copyright 2007-2012 by Makamaka Hannyaharamitu

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=cut

Found in path(s):
* /opt/cola/permits/1228286751_1637032133.21/0/libjson-perl-4-03000-orig-1-tar-gz/JSON-4.03/lib/JSON/backportPP/Compat5006.pm

1.1148 nuid 1.0.1
1.1148.1 Available under license:

Apache License
Version 2.0, January 2004
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1.1149 kubernetes-api 0.20.4

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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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text of ca-bundle.crt:

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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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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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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
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
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The ziggurat methods were derived from Julia.

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# SFC64

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821ff07cf76504a97f6537c818083

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Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

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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
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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Gocheck - A rich testing framework for Go

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Gocheck - A rich testing framework for Go

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1.1197 songgao-water 0.0.0-20200317203138-2b4b6d7c09d8

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1.1205.1 Available under license:
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Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
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---------------------------------------------------------------------

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin
Source: dsp56k/bootstrap.asm

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DSP56001 assembler, possibly buildable with a56 from
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---------------------------------------------------------------------

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis
File: cis/PCMLM28.cis
File: cis/DP83903.cis
File: cis/NE2K.cis
File: cis/tamarinak.cis
File: cis/PE-200.cis
File: cis/PE520.cis
Source: cis/src/LA-PCM.cis
Source: cis/src/PCMLM28.cis
Source: cis/src/DP83903.cis
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---------------------------------------------------------------------

Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis
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Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

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File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis
File: cis/COMpad2.cis
File: cis/COMpad4.cis
Source: cis/src/MT5634ZLX.cis
Source: cis/src/RS-COM-2P.cis
Source: cis/src/COMpad2.cis
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File: cis/SW_555_SER.cis
File: cis/SW_7xx_SER.cis
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Driver: dvb-ttpci -- AV7110 cards

File: av7110/bootcode.bin
Source: av7110/Boot.S

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Driver: usbdx/usbduxfast/usbduxsigma - usbdx data acquisition cards

File: usbdx_firmware.bin
File: usbduxfast_firmware.bin
File: usbduxsigma_firmware.bin
Source: usbdux/fx2-include.asm
Source: usbdux/usbduxfast_firmware.asm
Source: usbdux/usbdux_firmware.asm
Source: usbdux/usbduxsigma_firmware.asm

Licence: GPLv2. See source code in usbdx/ subdirectory.

Provided from the author, Bernd Porr <BerndPorr@f2s.com>

Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin
Source: isci/create_fw.c
Source: isci/create_fw.h
Source: isci/probe_roms.h
Source: isci/Makefile

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/

Downloaded from http://linuxwireless.org/en/users/Drivers/carl9170

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Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
Source: keyspan_pda/xircom_pgs.S

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Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin
Source: dsp56k/bootstrap.asm

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DSP56001 assembler, possibly buildable with a56 from http://www.zdomain.com/a56.html

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis
Licence: Dual GPLv2/MPL

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Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

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Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

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Driver: serial_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis  
File: cis/COMpad2.cis  
File: cis/COMpad4.cis  
Source: cis/src/MT5634ZLX.cis  
Source: cis/src/RS-COM-2P.cis  
Source: cis/src/COMpad2.cis  
Source: cis/src/COMpad4.cis  

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--------------------------------------------------------------------------  

Driver: serial_cs - Serial PCMCIA adapter  

File: cis/SW_555_SER.cis  
File: cis/SW_7xx_SER.cis  
File: cis/SW_8xx_SER.cis  

Licence: GPLv3  

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These binary files are understood to be the preferred form for modification. They follow the PCMCIA Card Information Structure (CIS) format. The pcmcia-cs project <http://pcmcia-cs.sourceforge.net/> distributes tools for converting between CIS and an unofficial text format.  

--------------------------------------------------------------------------  

Driver: dvb-tpci -- AV7110 cards  

File: av7110/bootcode.bin  
Source: av7110/Boot.S  

Licence: GPLv2 or later  

--------------------------------------------------------------------------  

Driver: usbdux/usbduxfast/usbduxsigma - usbdux data acquisition cards  

File: usbdux_firmware.bin  
File: usbduxfast_firmware.bin  
File: usbduxsigma_firmware.bin  
Source: usbdux/fx2-include.asm
Source: usbdux/usbduxfast_firmware.asm
Source: usbdux/usbdux_firmware.asm
Source: usbdux/usbduxsigma_firmware.asm

Licence: GPLv2. See source code in usbdux/ subdirectory.

Provided from the author, Bernd Porr <BerndPorr@f2s.com>

---

Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin
Source: isci/create_fw.c
Source: isci/create_fw.h
Source: isci/probe_roms.h
Source: isci/Makefile

Licence: GPLv2

---

Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/

Downloaded from http://linuxwireless.org/en/users/Drivers/carl9170

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Atheros carl9170 firmware - used by the ar9170 wireless device

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1.1212 diffutils 3.7-5

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1.1221 jsonref 0.2

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1.1222 groff 1.22.4-3+deb10u1

1.1222.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the GNU groff
document formatting system.

GNU groff was written by James Clark <jjc@jclark.com>.

This Debian package was previously maintained by Fabrizio Polacco
<fpolacco@debian.org>.
It is now maintained by Colin Watson <cjwatson@debian.org>.

The original tarball came from <URL:ftp://groff.ffii.org/pub/groff/>:
48fa768dd6fdeb7968041dd5ae8e2b02  groff-1.20.1.tar.gz
and was simply renamed to groff_1.20.1.orig.tar.gz.

Some patches have been applied to groff outside the debian directory.

The Debian diff also appends /usr/share/groff/tmac to the default macro path
for compatibility with versions of groff earlier than 1.17 (patch by Colin
Watson).

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

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Written by James Clark (jjc@jclark.com)

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I e-mailed the upstream maintainer to clarify the intent of this. Here is the relevant part of the reply:

From: Werner LEMBERG <wl@gnu.org>
To: cjwatson@debian.org
Subject: Re: Clarifying the scope of groff/LICENSE
Date: Thu, 18 Nov 2004 00:19:52 +0100 (CET)

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> assume that groff/LICENSE grants me permission to distribute  
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> GPL?

This is the intention, of course.

> If not, is the FDL thing from yesteryear going to be resolved some  
> other way? I just want to make sure that I don't get forced to  
> remove the groff manual, since that would really diminish the  
> quality of the Debian package IMHO.

Sigh. I haven't found time to revert the FDL stuff back to GPL. It basically affects only Bernd Warken and me, and we have both agreed to return to GPL in case FDL makes problems.

(Note that this e-mail predates the current wording in LICENSES.)

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ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

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The patterns have been converted to a format groff can understand.

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1.1223 libdnet 1.12-8

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1.1224 docker-cli 20.10.9+incompatible

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1.1228 lua 5.1.5
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1.1229 x-sys 0.0.0-20210616094352-59db8d763f22

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1.1230 proto-otlp 0.12.0

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1.1231 go-hostpool 0.0.0-20160125115350-e80d13ce29ed

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1.1232 python3-asn1crypto 0.24.0
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1.1233 tar 1.30+dfsg 6

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1.1235 libxau 1.0.8-1+b2

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1.1238 gdbm 1.19-2

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procs 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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5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
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@dwf.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 <sjbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]H.Lambermont@chello.nl ntpswep
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 <dkgatz@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@ucsf.berkeley.edu> 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@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 <r@email.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 <nrs@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
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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
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copyright = {
    date = "1992-2017";
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    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    type = ntp;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=\`sed -e 's/.*\[// -e \'s/\]\.*\]' < ../sntp/m4/version.m4`
       [ -z "$\{VERSION\}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo "$\{VERSION\}";

version-value = ""; /* Don't use -v as a shortcut for --version */

/*
 * HMS: man pages already have this, and texi pages can use the
 * values in sntp/include/version.texi.
 */
// doc-sub = {
    // sub-name = version;
    // sub-text = 's/\#VERSION#/<<version>>/g';
// }
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<a href="mailto:%20dkatz@cisco.com">Dave Katz &lt;dkatz@cisco.com&gt;</a> RS/6000 AIX port</li>

<a href="mailto:%20leres@ee.lbl.gov">Craig Leres &lt;leres@ee.lbl.gov&gt;</a> 4.4BSD port, ppsclock, Magnavox GPS clock driver</li>

<a href="mailto:%20lindholm@ucs.ubc.ca">George Lindholm &lt;lindholm@ucs.ubc.ca&gt;</a> SunOS 5.1
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- **MD5-based authentication** - Louis A. Mamakos &lt;louie@ni.umd.edu&gt;
- **adaptation of foundation code for Version 3 as specified in RFC-1305** - Lars H. Mathiesen &lt;lthorinn@diku.dk&gt;
- **Network I/O, Windows Port, Code Maintenance** - Danny Mayer &lt;mayer@ntp.org&gt;
- **Port** - David L. Mills &lt;mills@udel.edu&gt;
- **MD5-based authentication** - Louis A. Mamakos &lt;louie@ni.umd.edu&gt;
- **Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36** - Wolfgang Moeller &lt;moeller@gwdgv1.dnet.gwdg.de&gt; and his team.
- **VMS port** - Rob Neal &lt;neal@ntp.org&gt; and Tom Moore &lt;tmoore@fievel.daytonoh.nrc.com&gt;.
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- **Sandboxing (libseccomp) support** - Loganaden Velvindron &lt;loganaden@gmail.com&gt;.
- **TrueTime GPS driver** - Paul A Vixie &lt;vixie@vix.com&gt;.

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

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

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

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

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

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

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1.1259 nise 1.5.3

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.1283 diffutils 3.7 3

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Version 2.8, 17 August 2003

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

Stephen,

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

Regards, Juan

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

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---

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

---

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

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situation.

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of course, welcomed to expend time and energy seeking clarifications
you think are necessary. I suggest you contact University's general
counsel office (http://www.umich.edu/~vpgc/).

Regards, Kurt

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1.1297 django-fsm-log 2.0.1

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1.1298 tzdata 2021a 1+deb11u2

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This is the Debian prepackaged version of the Time Zone and Daylight
Saving Time Data.

It was downloaded from http://www.iana.org/time-zones

Upstream Author: The Internet Assigned Numbers Authority (IANA)
Commentary should be addressed to tz@iana.org

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contain material derived from BSD and use the BSD 3-clause license.
1.1299 django-fsm 2.7.1

1.1299.1 Available under license:
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: django-fsm
Version: 2.7.1
Summary: Django friendly finite state machine support.
Home-page: http://github.com/kmmbvnr/django-fsm
Author: Mikhail Podgurskiy
Author-email: kmmbvnr@gmail.com
License: MIT License
Description: UNKNOWN
Keywords: django
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Framework :: Django
Classifier: Framework :: Django :: 1.6
Classifier: Framework :: Django :: 1.8
Classifier: Framework :: Django :: 1.9
Classifier: Framework :: Django :: 1.10
Classifier: Framework :: Django :: 1.11
Classifier: Framework :: Django :: 2.0
Classifier: Framework :: Django :: 2.1
Classifier: Framework :: Django :: 2.2
Classifier: Framework :: Django :: 3.0
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Framework :: Django
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /opt/cola/permits/1228286727_1637032130.97/0/django-fsm-2-7-1-tar-gz/django-fsm-2.7.1/PKG-INFO
* /opt/cola/permits/1228286727_1637032130.97/0/django-fsm-2-7-1-tar-gz/django-fsm-2.7.1/django_fsm.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

from setuptools import setup

try:
    long_description = open('README.rst').read()
except IOError:
    long_description = "

setup(
    name='django-fsm',
    version='2.7.1',
    description='Django friendly finite state machine support.',
    author='Mikhail Podgurskiy',
    author_email='kmmbvnr@gmail.com',
    url='http://github.com/kmmbvnr/django-fsm',
    keywords="django",
    packages=['django_fsm', 'django_fsm.management', 'django_fsm.management.commands'],
    include_package_data=True,
    zip_safe=False,
    license='MIT License',
    platforms=['any'],
    classifiers=[
        'Development Status :: 5 - Production/Stable',
        'Environment :: Web Environment',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: MIT License',
        'Operating System :: OS Independent',
        'Framework :: Django',
        'Framework :: Django :: 1.6',
        'Framework :: Django :: 1.8',
        'Framework :: Django :: 1.9',
        'Framework :: Django :: 1.10',
        'Framework :: Django :: 1.11',
        'Framework :: Django :: 2.0',
        'Framework :: Django :: 2.1',
        'Framework :: Django :: 2.2',
        'Framework :: Django :: 3.0',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        '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',
        'Framework :: Django',
    ]
)
1.1300 libgcrypt 1.8.4 5+deb10u1

1.1300.1 Available under license:

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1.1329 pep517 0.10.0

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1.1330 is-string 1.0.5

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1.1331 libalgorithm-diff-xs-perl 0.04 5+b1

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=head1 NAME

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

=head1 SYNOPSIS
# Drop-in replacement to Algorithm::Diff, but "compact_diff"
# and C<LCSidx> will run much faster for large data sets.
use Algorithm::Diff::XS qw( compact_diff LCSidx );

=head1 DESCRIPTION

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

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

=head1 BENCHMARK

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

The benchmarking script is as below:

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

=head1 SEE ALSO

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

=head1 AUTHORS

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

=head1 COPYRIGHT

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

Contains derived code copyrighted 2003 by Joe Schaefer,
E<lt>joe+cpan@sunstarsys.comE<gt>. 
This library is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068209212_1595544847.99/0/libalgorithm-diff-xs-perl-0-04-orig-tar-gz/Algorithm-Diff-XS-0.04/lib/Algorithm/Diff/XS.pm
No license file was found, but licenses were detected in source scan.

---
abstract: Algorithm::Diff with XS core loop
author: Audrey Tang <cpan@audreyt.org>
distribution_type: module
generated_by: Module::Install version 0.67
license: perl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.3.html
version: 1.3
name: Algorithm-Diff-XS
no_index:
directory:
  - inc
  - t
requires:
  Algorithm::Diff: 1.19
perl: 5.6.0
version: 0.01

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068209212_1595544847.99/0/libalgorithm-diff-xs-perl-0-04-orig-tar-gz/Algorithm-Diff-XS-0.04/META.yml
No license file was found, but licenses were detected in source scan.

'GNU public license' => 'gpl', 1,
'GNU lesser public license' => 'gpl', 1,
'BSD license' => 'bsd', 1,
'proprietary' => 'proprietary', 0,
if ( $osi and $license_text =~ /All rights reserved/i ) {
  warn "LEGAL WARNING: 'All rights reserved' may invalidate Open Source licenses. Consider removing it.';

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068209212_1595544847.99/0/libalgorithm-diff-xs-perl-0-04-orig-tar-gz/Algorithm-Diff-XS-0.04/inc/Module/Install/Metadata.pm
No license file was found, but licenses were detected in source scan.

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


Do NOT edit this file directly! -- Edit PPPort_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.
This version of `ppport.h` is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.9.3.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --patch=I<file>

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

=head2 --copy=I<suffix>

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

If neither `--patch` or `--copy` are given, the default is to simply print the diffs for each file. This requires either `Text::Diff` or a `diff` program to be installed.

=head2 --diff=I<program>

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

=head2 --compat-version=I<version>

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

=head2 --cplusplus

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

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

=head2 --nodiag

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

=head2 --nohints

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

=head2 --nochanges

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

=head2 --nofilter

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

=head2 --list-provided

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

=head2 --list-unsupported

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

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

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

=head1 DESCRIPTION

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

=over 4
Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

```
perl ppport.h --list-provided
```

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

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

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

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

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

For a `C<static>` function, use:

```
#define NEED_function
```

For a global function, use:

```
#define NEED_function_GLOBAL
```

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

<table>
<thead>
<tr>
<th>Function</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
</tbody>
</table>
grok_numeric_radix() NEED_grok_numeric_radix NEED_grok_numeric_radix_GLOBAL
grok_oct() NEED_grok_oct NEED_grok_oct_GLOBAL
newCONSTSUB() NEED_newCONSTSUB NEED_newCONSTSUB_GLOBAL
newRV_noinc() NEED_newRV_noinc NEED_newRV_noinc_GLOBAL
sv_2pv_nolen() NEED_sv_2pv_nolen NEED_sv_2pv_nolen_GLOBAL
sv_2pvbyte() NEED_sv_2pvbyte NEED_sv_2pvbyte_GLOBAL
sv_catpvf_mg() NEED_sv_catpvf_mg NEED_sv_catpvf_mg_GLOBAL
sv_catpvf_mg_nocontext() NEED_sv_catpvf_mg_nocontext NEED_sv_catpvf_mg_nocontext_GLOBAL
sv_setpvf_mg() NEED_sv_setpvf_mg NEED_sv_setpvf_mg_GLOBAL
sv_setpvf_mg_nocontext() NEED_sv_setpvf_mg_nocontext NEED_sv_setpvf_mg_nocontext_GLOBAL
vnewSVpvf() NEED_vnewSVpvf NEED_vnewSVpvf_GLOBAL

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

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

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

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

```perl
perl ppport.h
```

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

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

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

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

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

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

This would output context diffs with 10 lines of context.

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

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

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

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

to display information for all known API elements.

=head1 BUGS

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

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

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.
This file.

=item 3.

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

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

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

=head1 COPYRIGHT

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

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

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

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

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

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

my($ppport) = $0 =~ /\[(.)\]+$/;
my $LF = qr/(?:\r\n|\[\r\n\])/;  # line feed
my $HS = qr/\[ \t\]/;             # horizontal whitespace

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(\%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

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

usage() if $opt{help};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
  if ($@) {
    die "Invalid version number format: $opt{compat-version}\n"
  };
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: $opt{compat-version}\n" if $v >= 1000 || $s >= 1000;
  $opt{compat-version} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
  $opt{compat-version} = 5;
}

# Never use C comments in this file!!!!!
my $ccs = qr/\./;
my $cce = qr/\*/;
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
my %API = map { /^\w\|.*\|.*\|\w$/
  ? ( $1 => {
    ($2      ? ( base => $2 ) : ()),
    ($3      ? ( todo => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
  } )
  : die "invalid spec: $_" } qw(AvFILLp|5.004050||p)
AvFILLp|5.004050||p
HvNAME
INT2PTR
IN_LOCALE_COMPILETIME
IN_LOCALE_RUNTIME
IN_LOCALE
IN_PERL_COMPILETIME
IS_NUMBER_GREATER_THAN_UV_MAX
IS_NUMBER_INFINITY
IS_NUMBER_IN_UV
IS_NUMBER_NAN
IS_NUMBER_NEG
IS_NUMBER_NOT_INT
IVSIZE
IVTYPE
IVdf
LEAVE
LVRET
MARK
MY_CXT_CLONE
MY_CXT_INIT
MY_CXT
MoveD
Move
NEWSV
NOOP
NUM2PTR
NVTYPE
NVef
NVff
NVgf
Newc
Newz
New
Nullav
Nullch
Nullcv
Nullhv
Nullsv
ORIGMARK
PAD_BASE_SV
PAD_CLONE_VARS
PAD_COMPNAME_FLAGS
PAD_COMPNAME_GEN_set
PAD_COMPNAME_GEN
PAD_COMPNAME_OURSTASH
PAD_COMPNAME_PV
PAD_COMPNAME_TYPE
PAD_RESTORE_LOCAL
PAD_SAVE_LOCAL
PAD_SAVE_SETNULLPAD
PAD_SETSV
PAD_SET_CUR_NOSAVE
PAD_SET_CUR
PAD_SV
PAD_SV
PERL_BCDVERSION
PERL_GCC_BRACE_GROUPS_FORBIDDEN
PERL_INT_MAX
PERL_INT_MIN
PERL_LONG_MAX
PERL_LONG_MIN
PERL_MAGIC_arylen
PERL_MAGIC_backref
PERL_MAGIC_bm
PERL_MAGIC_collxfrm
PERL_MAGIC_dbfile
PERL_MAGIC_dbline
PERL_MAGIC_defelem
PERL_MAGIC_envelem
PERL_MAGIC_ext
PERL_MAGIC_fmb
PERL_MAGIC_glob
PERL_MAGIC_isaelem
PERL_MAGIC_isa
PERL_MAGIC_mutex
PERL_MAGIC_nkeys
PERL_MAGIC_overload_elem
PERL_MAGIC_overload_table
PERL_MAGIC_overload
PERL_MAGIC_pos
PERL_MAGIC_qf
PERL_MAGIC_regdata
PERL_MAGIC_regdatum
PERL_MAGIC_regex_global
PERL_MAGIC_shared_scalar
PERL_MAGIC_shared
PERL_MAGIC_sigelem
PERL_MAGIC_sig
PERL_MAGIC_substr
PERL_MAGIC_sv
PERL_MAGIC_taint
PERL_MAGIC_tiedelem
PERL_MAGIC_tiedscalar
PERL_MAGIC_tied
PERL_MAGIC_utf8
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_QUAD_MAX|5.004000||p
PERL_QUAD_MIN|5.004000||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SUBVERSION|5.006000||p
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsingle;||pn
PL_DBsub;||pn
PL_DBtrace;||n
PL_Sv|5.005000||p
PL_complining|5.004050||p
PL_copline|5.005000||p
PL_curcoping|5.004050||p
PL_curstashing|5.004050||p
PL_debstash|5.004050||p
PL_defvgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn;||pn
PL_errno;|5.004050||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_last_in_gv;||n
PL_modglobal|5.005000||n
PL_na|5.004050||pn
PL_no_modify|5.006000||p
PL_ofs_sv;||n
PL_perl_destruct_level|5.004050||p
PerlIO_set_ptrcnt||5.007003
PerlIO_setlinebuf||5.007003
PerlIO_stderr||5.007003
PerlIO_stdin||5.007003
PerlIO_stdout||5.007003
PerlIO_tel||5.007003
PerlIO_unread||5.007003
PerlIO_write||5.007003
Poison||5.008000
RETVAL||n
Renewc||
Renew||
SAVECLEARSV||
SAVECOMPPAD||
SAVEPADSV||
SAVETMPS||
SAVE_DEFSV|5.004050|
SPAGAIN||
START_EXTERN_C|5.005000|
START_MY_CXT|5.007003|
STMT_END||
STMT_START||
ST||
SVt_IV||
SVt_NV||
SVt_PVAV||
SVt_PVCV||
SVt_PVHV||
SVt_PVMG||
SVt_PV||
Safefree||
Slab_Alloc||
Slab_Free||
StructCopy||
SvCUR_set||
SvCUR||
SvEND||
SvGETMAGIC|5.004050|
SvGROW||
SvIOK_UV|5.006000|
SvIOK_notUV|5.006000|
SvIOK_off||
SvIOK_only_UV|5.006000|
SvIOK_only||
SvIOK_on||
SvIOKp||
SvIOK||
SvIV][SvIV_nomg[5.009001][p
SvIV_set][SvIVx][SvIV][SvIsCOW_shared_hash[5.008003]
ck_bitop||
ck_concat||
ck_defined||
ck_delete||
ck_die||
ck_eof||
ck_eval||
ck_exec||
ck_exists||
ck_exit||
ck_ftst||
ck_fun||
ck_glob||
ck_grep||
ck_index||
ck_join||
ck_lengthconst||
ck_lfun||
ck_listiobj||
ck_match||
ck_method||
ck_null||
ck_open||
ck_repeat||
ck_require||
ck_retarget||
ck_return||
ck_rfun||
ck_rvconst||
ck_sassign||
ck_select||
ck_shift||
ck_sort||
ck_spair||
ck_split||
ck_subr||
ck_substr||
ck_svconst||
ck_trunc||
ck_unpack||
cl_and||
cl_anything||
cl_init_zero||
cl_init||
cl_is_anything||
cl_or||
closest_cop||
convert||
cop_free
cr_textfilter
croak_nocontext|\n
croak|\n
csighandler|5.007001|\n
custom_op_desc|5.007003|\n
custom_op_name|5.007003|\n
cv_ckptprotot|\n
cv_clone|\n
cv_const_sv|5.004000|\n
cv_dump|\n
cv_undef|\n
cx_dump|5.005000|\n
cx_dup|\n
cxinc|\n
dAXMARK|5.009003|\n
dAX|5.007002|\n
dITEMS|5.007002|\n
dMARK|\n
dMY_CXT_SV|5.007003|\n
dMY_CXT|5.007003|\n
dNOOP|5.006000|\n
dORIGMARK|\n
dSP|\n
dTHR|5.004050|\n
dTHXa|5.006000|\n
dTHXoa|5.006000|\n
dTHX|5.006000|\n
dUNDERBAR|5.009002|\n
dXCPT|5.009002|\n
dXSARGS|\n
dXSI32|\n
dXSTARQ|5.006000|\n
deb_curcv|\n
deb_nocontext|\n
deb_stack_all|\n
deb_stack_n|\n
debop|5.005000|\n
debprofdump|5.005000|\n
debprof|\n
debstackptrs|5.007003|\n
debstack|5.007003|\n
deb|5.007003|\n
del_he|\n
del_sv|\n
delimcpy|5.004000|\n
depcom|\n
deprecate_old|\n
do_trans_complex_utf8|||  
do_trans_complex|||  
do_trans_count_utf8|||  
do_trans_count|||  
do_trans_simple_utf8|||  
do_trans_simple|||  
do_trans|||  
do_vecget|||  
do_vecset|||  
do_vop|||  
docatch_body|||  
docatch|||  
doeval|||  
dofile|||  
dofindlabel|||  
doform|||  
doing_taint|||  

dooneliner|||  
dopen_pm|||  
doparseform|||  
dopoptoeval|||  
dopoptolabel|||  
dopoptoloop|||  
dopoptosub_at|||  
dopoptosub|||  
dounwind|||  
dowantarray|||  
dump_all|||  
dump_eval|||  
dump_fds|||  
dump_form|||  
dump_indent|||  
dump_mstats|||  
dump_packsubs|||  
dump_sub|||  
dump_vindent|||  
dumpuntil|||  
dup_attrlist|||  
emulate_eaccess|||  
eval_pv|||  
eval_sv|||  
extpect_number|||  
fbm_compile|||  
fbm_instr|||  
fd_on_nosuid_fs|||  
filter_add|||  
filter_del|||  
filter_gets|||
filter_read
find_beginning
find_byclass
find_in_my_stash
find_runcv
find_rundefsvoffset
find_script
find_uninit_var
fold_constants
forbid_setid
force_ident
force_list
force_next
force_version
force_word
form_nocontext
form
fp_dup
fprintf_nocontext
free_global_struct
free_tied_hv_pool
free_tmps
gen_constant_list
get_av
get_context
get_cv
get_db_sub
get_debug_opts
get_hash_seed
get_hv
get_mstats
get_no_modify
get_num
get_op_descs
get_op_names
get_opargs
get_ppaddr
get_sv
get_vtbl
getcwd_sv
getenv_len
gp_dup
gp_free
gp_ref
grok_bin
grok_hex
grok_number
grok_numeric_radix
hv_fetch
hv_free_ent[5.004000]
hv_iterinit
hv_iterkeysy[5.004000]
hv_iterkey
hv_iternext_flags[5.008000]
hv_iternextsv
hv_iternext
hv_interval
hv_ksplit[5.004000]
hv_magic_check
hv_magic
hv_name_set[5.009003]
hv_notallowed
hv_placeholder_get[5.009003]
hv_placeholder_p[5.009003]
hv_placeholder_set[5.009003]
hv_riter_p[5.009003]
hv_riter_set[5.009003]
hv_scalar[5.009001]
hv_store_ent[5.004000]
hv_storeflags[5.008000]
hv_store
hv_undef
ibcmp_locale[5.004000]
ibcmp_utf8[5.007003]
ibcmp
incl_perldb
incline
incpush
ingroup
init_argv_symbols
init_debugger
init_global_struct
init_i18n10n[5.006000]
init_i18n14n[5.006000]
inid
init_interp
init_lexer
init_main_stash
init_perllib
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);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %depends);
my $replace = 0;
my $hint = '';
while (<DATA>) {
if ($hint) {
if (m{^\s*\*\s(.*?)\s*$}) {
$hints{$hint} ||= ''; # suppress warning with older perls
$hints{$hint} .= "$1\n";
}
else {
$hint = '';
}

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$hint = $1 if m{^\s*$rccs\s*Hint:\s*+(\w+)*$};

$replace = $1 if m{^\s*$rccs\s+Replace:\s*+(\w+)*$};
$replace{$2} = $1 if replace and m{^\s*$rccs\s+Replace:.$rcce\s*$};
$replace{$2} = $1 if m{^\s*#define\s+\(([^)]+)\)\s*$rcce\s*$};
$replace{$1} = $2 if m{^\s*$rccs\s*Replace \1 with \2\s*$rcce\s*$};

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

$need{$1} = 1 if m{^\s*\!(\w+)\s+depends\s+on\s+(\w+),(\w+)*\s*$rcce\s*$};

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{'api-info'}\E$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base:\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo:\n";
            print "Support needs to be explicitly requested by NEED_$f:\n" if exists $need{$f};
            print "Depending on: \n\njoin(', '. @ $depends{$f}), ', \n\n" if exists $depends{$f};
            print "$hints{$f}" if exists $hints{$f};
            $info++;
        }
        unless ($info) {
            print "No portability information available:\n";
            $count++;
        }
    }
    if ($count > 0) {
        print "\n";
    } else {
        print "Found no API matching 'Opt{\"api-info\"}'\n";
    }
exit 0;
}
if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{provided};
my @flags;
push @flags, 'explicit' if exists $need{$f};
push @flags, 'depend' if exists $depends{$f};
push @flags, 'hint' if exists $hints{$f};
my $flags = @flags ? ' ['.join(', ', @flags).']' : '';
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;
if (@ARGV) {
my %seen;
@files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /\.($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*.$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/\.($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;

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unless (@files) {
  die "No input files given!\n";
}
my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "|\$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /Ab\(\?Perl\\)?\($match)\b/) {
        $file{uses_replace}{\$1}++ if exists $revreplace{$func} &\& \$1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /AbPerl_$func\b/;
    }
    if (exists $API{$func}{provided}) {
        if ('\$exists $API{$func}{base} &\& $API{$func}{base} > $opt{\'compat-version\'}') {
            $file{uses}{$func}++;
            my @deps = rec_depend($func);
            if (@deps) {
                $file{uses_deps}{$func} = \@deps;
                for (@deps) {
                    $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                }
            }
            for ($func, @deps) {
                if (exists $need{$_}) {
                    $file{needs}{$_} = 'static';
                }
            }
        }
        if (exists $API{$func}{todo} &\& $API{$func}{todo} > $opt{\'compat-version\'}) {
            if ($c =~ /Ab$func\b/) {
                $file{uses_todo}{$func}++;
            }
        }
    }
}

while ($c =~ /^\$HS*#\$HS*define\$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
    if (exists $need{\$2}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    } else {
        warning("Possibly wrong #define $1 in $filename");
    }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
        push @{$global{$_}{$func}}, $filename;
    }
}
$files{$filename} = \%file;

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
    if (@{$global{needs}{$need}} > 1) {
        my @targets = @{$global{needs}{$need}};
        my $target = shift @targets;
        $files{$target}{needs}{$need} = 'global';
        for (@{$global{needs}{$need}}) {
            $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
        }
    }
}

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

    info("=== Analyzing $filename ===");
    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};

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

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $files{changes} += ($c =~ s{\bPerl_$func\$\*\$*\(\)?aTHX_\$\*\$*\$\(\$\)\$\(\$\)\$\(\$\)}{$func$1()}g);
}

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

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

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

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

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

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

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

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

    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp = "\include "$ppport\n"
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^(?=$HS*#\$HS*define\$HS+NEED_\w+/\$1$pp/m)
            || ($c =~ s/^(?=$HS*#\$HS*include.*$ppport\E)/$pp/m)
            || ($c =~ s/^(?=$HS*#\$HS*include.*XSUB.*\s*?)^/$1$pp/m)
            || ($c =~ s/^(?=$HS*#\$HS*include.*\$s*?)^/$1$pp/m)
        );
    }
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
    }
# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                infor("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                }
            }
        } else if (exists $opt{changes}) {
            # patch applied to file
            # do something with changes

        }
    }
}
error("Cannot open '$opt{patch}' for writing: $!");
delete $opt{patch};
$opt{changes} = 1;
goto fallback;
}
}
mydiff(
PATCH, $filename, Sc);
}
else {
 fallback:
info("Suggested changes:");
mydiff(
STDOUT, $filename, Sc);
}
}
else {
 my $s = $file{changes} == 1 ? " : 's';
info("$file{changes} potentially required change$s detected");
}
}
else {
 info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub mydiff
{
 local *F = shift;
 my($file, $str) = @_;
 my $diff;

 if (exists $opt{diff}) {
  $diff = run_diff($opt{diff}, $file, $str);
  
  }
 if (!defined $diff and can_use('Text::Diff')) {
  $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
  $diff = <<HEADER . $diff;
  3 --- $file
  4 +++ $file.patched
  HEADER
  }

  if (!defined $diff) {


$diff = run_diff('diff -u', $file, $str);

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

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

print F $diff;

}

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

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

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

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

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

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

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

sub parse_version
{
    my $ver = shift;
    if ($ver =~ /^\d+\.(\d+).\d+$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ ^\d+\.[\d_]+$/) {
        die "cannot parse version '$ver';"
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+.(\d+)\d+$/;

    $v = int $v;
    $s = int $s;
    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver';"
        }
    }

    return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;
    }

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$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+(\d{3})(\d{3})/;

$v = int $v;
$s = int $s;

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

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

    return $ver;
}

return sprintf "%.%03d", $r, $v, $s;

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

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

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

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

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

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

exit 2;

__DATA__
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068209212_1595544847.99/0/libalgorithm-diff-xs-perl-0.04-orig-tar-gz/Algorithm-Diff-XS-0.04/ppport.h

1.1332 hammer 2.0.8
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1.1340 intel-ipsec-mb 0.52-2

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1.1341 x-sync 0.0.0-20201207232520-09787c993a3a

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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__), '__init__.py'),
    encoding='utf-8').read()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8').read()
setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1102484124_1603771709.92/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/setup.py
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* /opt/cola/permits/1102484124_1603771709.92/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py
* /opt/cola/permits/1102484124_1603771709.92/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1102484124_1603771709.92/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1102484124_1603771709.92/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
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**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.

---

**webencodings.mklabels**

Regenerate the webencodings.labels module.

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---

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

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

def generate(url):
    parts = [
    
    "webencodings.labels
    ~~~~~~~~~~~~~~~~
    
    Map encoding labels to their name.
    
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    # 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,
        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/1102484124_1603771709.92/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
No license file was found, but licenses were detected in source scan.

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

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

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* 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
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
1.1345 psycopg 2.8.6-2

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1.1347 zlib 1.2.11.dfsg-1+deb10u1

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-------------------------------------------------------------

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.
1.1359 protobuf 1.26.0

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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1.1365 ncurses 6.1+20181013 2+deb10u2

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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1.1366 cryptsetup 2.1.0-5+deb10u2

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1.1369 libunwind 1.2.1-10~deb10u1

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1.1370 typescript-logic 0.0.0

1.1371 pygobject 3.30.4-1

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

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# Contribsor to oauth2client

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* [Jon Wayne Parrott](https://github.com/jonparrott)
* [Danny Hermes](https://github.com/dhermes)

Previous maintainers:

* [Craig Citro](https://github.com/craigcitro)
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* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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### 1.1393 argon2 0~20171227-0.2

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Argon2 reference source code package - reference C implementations

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Section 6 states terms for distribution of such executables.

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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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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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1.1403 click 8.1.3

1.1403.1 Available under license:
No license file was found, but licenses were detected in source scan.

.. _contrib:

=============
click-contrib
==============

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

Found in path(s):
* /opt/cola/permits/1318172402_1651721571.72/0/click-8.1.3-tar-gz/click-8.1.3/docs/contrib.rst

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

Metadata-Version: 2.1
Name: click
Version: 8.1.3
Summary: Composable command line interface toolkit
Home-page: https://palletsprojects.com/p/click/
Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

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

Click in three points:

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

Installing

```
$ click
```

```
==========
```

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

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

Click in three points:

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

Installing

```
$ click
```

```
==========
```
$ 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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------

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Links
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- Documentation: https://click.palletsprojects.com/
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- Source Code: https://github.com/pallets/click
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Found in path(s):
* /opt/cola/permits/1318172402_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/src/click.egg-info/PKG-INFO
* /opt/cola/permits/1318172402_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/PKG-INFO

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[metadata]
name = click
version = attr: click.__version__
url = https://palletsprojects.com/p/click/
project_urls =
Donate = https://palletsprojects.com/donate
Documentation = https://click.palletsprojects.com/
Changes = https://click.palletsprojects.com/changes/
Source Code = https://github.com/pallets/click/
Issue Tracker = https://github.com/pallets/click/issues/
Twitter = https://twitter.com/PalletsTeam
Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = Composable command line interface toolkit
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
Development Status :: 5 - Production/ Stable
Intended Audience :: Developers
License :: OSI Approved :: BSD License
Operating System :: OS Independent
Programming Language :: Python

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

[options.packages.find]
where = src
[tool:pytest]
testpaths = tests
filterwarnings = error

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

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

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

[mypy]
files = src/click
python_version = 3.7
show_error_codes = True
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

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* /opt/cola/permits/1318172402_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/setup.cfg
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1.1404 zlib 1.2.11.dfsg-2

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1.1408 tre 0.8.0

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 tre-python.c - TRE Python language bindings

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Metadata-Version: 1.0
Name: tre
Version: 0.8.0
Summary: Python module for TRE
Home-page: http://laurikari.net/tre/
Author: Ville Laurikari
1.1409 doublestar 3.0.0

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1.1410 grpc-ecosystem-go-grpc-middleware

1.3.0

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1.1412 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

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) {
        close(fd);
    }

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;
        }
        dir = asprintf("%s/.cache", pwd->pw_dir);
        if (dir) {
            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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GLib Team

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

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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:

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary 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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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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That's all there is to it!

1.1416 python-uritemplate 0.6-3
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uritemplate
============

.. image:: https://secure.travis-ci.org/uri-templates/uritemplate-py.png?branch=master
   :alt: build status
   :target: http://travis-ci.org/uri-templates/uritemplate-py

This is a Python implementation of `RFC6570`_, URI Template, and can expand templates up to and including Level 4 in that specification.

It exposes a method, *expand*. For example:

.. code-block:: python

   >>> from uritemplate import expand
   >>> expand("http://www.{domain}/", {"domain": "foo.com"})
   'http://www.foo.com/

It also exposes a method *variables* that returns all variables used in a uritemplate. For example:

.. code-block:: python

   >>> from uritemplate import variables
   >>> variables('http://www.{domain*}{/top,next}{?q:20}')
   set(['domain', 'next', 'q', 'top'])

This function can be useful to determine what keywords are available to be expanded.


Requirements
------------
uritemplate works with Python 2.5+

.. note:: You need to install `simplejson` module for Python 2.5.

.. _simplejson: https://pypi.python.org/pypi/simplejson/

Install
------

The easiest way to install uritemplate is with pip:

```
$ pip install uritemplate
```

See its `Python Package Index entry` for more.

.. _Python Package Index entry: http://pypi.python.org/pypi/uritemplate

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=======

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* /opt/cola/permits/1102484055_1603771696.63/0/python-uritemplate-0.6-orig-1-tar-xz/python-uritemplate-0.6/README.rst

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

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

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

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
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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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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1.1430 qemu 3.1+dfsg-8+deb10u8

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| TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL |
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| TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL |
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| TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL |
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{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },

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John R. Hauser
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## telegraf used and modified code from these projects

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1.1441 debian-archive-keyring 2021.1.1

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1.1444 string-natural-compare 3.0.1

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1.1447 golang-snappy 0.0.1
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Also add information on how to contact you by electronic and paper mail.

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

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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1.1453 cron 3.0pl1 134+deb10u1

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  * I'll try to keep a version up to date. I can be reached as follows:
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* /

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* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.org/env.c
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.org/cron.h
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.org/do_command.c
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.org/cron.c
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.org/user.c
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.org/bitstring.3
3.0pl1.orig/database.c
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
3.0pl1.orig/crontab.c
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
3.0pl1.orig/compat.c
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
3.0pl1.orig/entry.c
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
3.0pl1.orig/job.c
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
3.0pl1.orig/misc.c
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
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\" */
\"
\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
\"

Found in path(s):
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
3.0pl1.orig/crontab.1

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* /

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

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

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

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

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

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

say:
make all

su and say:
make install

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

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.
Use the `crontab` command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

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

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

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

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

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

Found in path(s):
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL
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# * Paul Vixie  <paul@vix.com>  uunet!decwrl!vixie!paul
# */

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

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run ' atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.
A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

This is more or less the copyright that USENET contributed software usually has. Since ATT couldn't use this version if they had to freely distribute source, and since I'd love to see them use it, I'll offer some rediculously low license fee just to have them take it. In the unlikely event that they do this, I will continue to support and distribute the pseudo-PD version, so please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

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

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

Found in path(s):
* /opt/cola/permits/1097313584_1611670802.240/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/README
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* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
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  3.0pl1.orig/bitstring.h

1.1454 react-router-dom 5.2.0

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1.1455 string-prototype-trimstart 1.0.1

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1.1456 man-pages 4.16 2
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import re
import sys
import textwrap
from pathlib import Path

# The standard short names in Debian are defined here:
# https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

license_information = [
    'shortname': 'BSD-3-clause',
    'filename': 'BSD-3-clause-UCB',
]
'upstream_names': ['BSD_3_CLAUSE_UCB'],
],
{
'shortname': 'BSD-4-clause',
'filename': 'BSD-4-clause-UCB',
'upstream_names': ['BSD_4_CLAUSE_UCB', 'BSD_ONELINE_CDROM'],
},
{
'shortname': 'Expat',
'filename': 'Expat',
'upstream_names': ['PERMISSIVE_MISC', 'MIT'],
},
{
'shortname': 'freely-redistributable',
'filename': 'freely-redistributable',
'upstream_names': ['FREELY_REDISTRIBUTABLE'],
},
{
'shortname': 'GPL-2',
'filename': 'GPL-2',
'upstream_names': ['GPLv2_MISC', 'GPLv2_ONELINE'],
},
{
'shortname': 'GPL-2+',
'filename': 'GPL-2+',
'upstream_names': ['GPLv2+_MISC', 'GPLv2+_DOC_MISC',
'GPLv2+_DOC_ONEPARA', 'GPLv2+_SW_3_PARA',
'GPLv2+_SW_ONEPARA'],
},
{
'shortname': 'henry-spencer-regex',
'filename': 'henry-spencer-regex',
'upstream_names': ['MISC'],
},
{
'shortname': 'LDPv1',
'filename': 'LDPv1',
'upstream_names': ['LDPv1'],
},
{
'shortname': 'public-domain',
'filename': 'public-domain',
'upstream_names': ['PUBLIC_DOMAIN'],
}


```python
{
    # This shortname is not defined by the standard.
    'shortname': 'verbatim',
    'filename': 'verbatim',
    'upstream_names': ['VERBATIM', 'VERBATIM_ONE_PARA',
                       'VERBATIM_TWO_PARA', 'VERBATIM_PROF'],
}
```

```
licenses_with_manpages = {}
symlinks = {}

def get_license_shortname(name):
    """Gets the Debian shortname for the name supplied by upstream.
    Includes a check that upstream's names are only assigned
to one shortname.
    """
    shortname = 
    already_found = False
    for info in license_information:
        if name in info['upstream_names']:
            if not already_found:
                shortname = info['shortname']
                already_found = True
            else:
                sys.exit("Fatal error: Upstream license name defined multiple times: " + name)
    return shortname

def add_manpage_to_shortname(manpage, copyright_holders, licenses):
    # Ensure a string for the filename
    filename = str(manpage)
    # Strip the leading "../"
    filename = filename[3:len(filename)]
    # Common case: only one license for the manpage, so
    # the shortname is just e.g. "GPL-2+"
    shortname = " and ".join(sorted(licenses))
    if shortname not in licenses_with_manpages:
        licenses_with_manpages[shortname] = {'files': [filename], 'copyright': copyright_holders}
    else:
        licenses_with_manpages[shortname]['files'].append(filename)
        # Do not add same lines twice
        existing_copyright_holders = licenses_with_manpages[shortname]['copyright']
        joined_copyright_holders = list(set(existing_copyright_holders + copyright_holders))
        licenses_with_manpages[shortname]['copyright'] = joined_copyright_holders

def get_copyright_stanza(shortname, file_info):
    stanza = ""
```
# Collect files and symlinks into a common list
all_files = file_info['files']
for file in file_info['files']:
    if file in symlinks:
        all_files = all_files + symlinks[file]
# Join the files into a whitespace separated list,
# at most 76 characters long
files = " ".join(sorted(all_files))
# The wrap is 69 + 7 (length of "Files: ") = 76
files = textwrap.wrap(files, width=69, break_long_words=False, break_on_hyphens=False)
files = "\n ".join(files)
# Now format the copyright holders
copyright = "\n ".join(sorted(file_info['copyright']))
# An empty field is an error, so ensure a value
if len(copyright) == 0:
    copyright = "(could not be detected automatically)"
# Finally, create the stanza
stanza += "Files: " + files
stanza += "\nCopyright: " + copyright
stanza += "\nLicense: " + shortname + "\n\n"
return stanza

def get_license_text(shortname):
    """Gets the text for the Debian license shortname."""
    text = ""
    for info in license_information:
        if info['shortname'] == shortname:
            text += "License: " + shortname + "\n"
    with open("licenses/" + info['filename']) as licensefile:
        for line in licensefile:
            text += " " + line
    return text

p = Path("..")
for manpage in p.glob("man?/*"):
    with manpage.open() as file:
        licenses = []
copyright_holders = []
manpage_is_symlink = False
for line in file:
    # Do not create copyright stanzas for symlink files
    # but add them to a symlink list
    symlink = re.search(r"^\.*\.(.*)", line)
    if symlink:
        manpage_is_symlink = True
    # Ensure a string for the filename
    linkname = str(manpage)
    # Strip the leading "./"
linkname = linkname[3:len(linkname)]
filename = symlink.group(1)
if filename in symlinks:
symlinks[filename].append(linkname)
else:
symlinks[filename] = [linkname]
break
# Only parse the header, so stop after seeing " .TH"
if re.search(r"^\".TH", line):
break
# Extract all copyright holders
copyright = re.search(r"^\".*?Copyright (.*)", line)
if copyright:
copyright_holders.append(copyright.group(1))
# Match the beginning of the license
license_start = re.search(r"^\" %%%LICENSE_START\((.*)\)\", line)
if license_start:
license_name = license_start.group(1)
license_short_name = get_license_shortname(license_name)
if not license_short_name:
sys.exit("Fatal error: Upstream license name not known: " + license_name)
licenses.append(license_short_name)
if not manpage_is_symlink:
add_manpage_to_shortname(manpage, copyright_holders, licenses)
# Flatten the symlinks by detecting and removing
# a symlink which points to another symlink.
for link_to_test in symlinks:
# Now cycle through all symlink entries
for link in symlinks:
if link_to_test in symlinks[link]:
symlinks[link] = symlinks[link] + symlinks[link_to_test]
# Make sorting of licenses deterministic
stanzas = ""
license_texts = []
for shortname in sorted(licenses_with_manpages):
stanzas += get_copyright_stanza(shortname, licenses_with_manpages[shortname])
text = get_license_text(shortname)
if text:
license_texts.append(text)
# Read in the first lines of copyright, without
# the automatically generated parts. Stop after
# the third occurrence of "License".
manual_lines = ""
license_line_count = 0
with open("copyright") as copyright_file:
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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
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.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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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.

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to attach them to the start of each source file to most effectively
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the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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mouse-clicks or menu items--whatever suits your program.

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1989
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CONTRIBUTORS for the olefile project

This is a non-exhaustive list of all the people who helped me improve the olefile project (formerly OleFileIO_PL), in approximative chronological order. Please contact me if I forgot to mention your name.

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- Philippe Lagadec: main author and maintainer since 2005
- and of course Fredrik Lundh: original author of OleFileIO from 1995 to 2005

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